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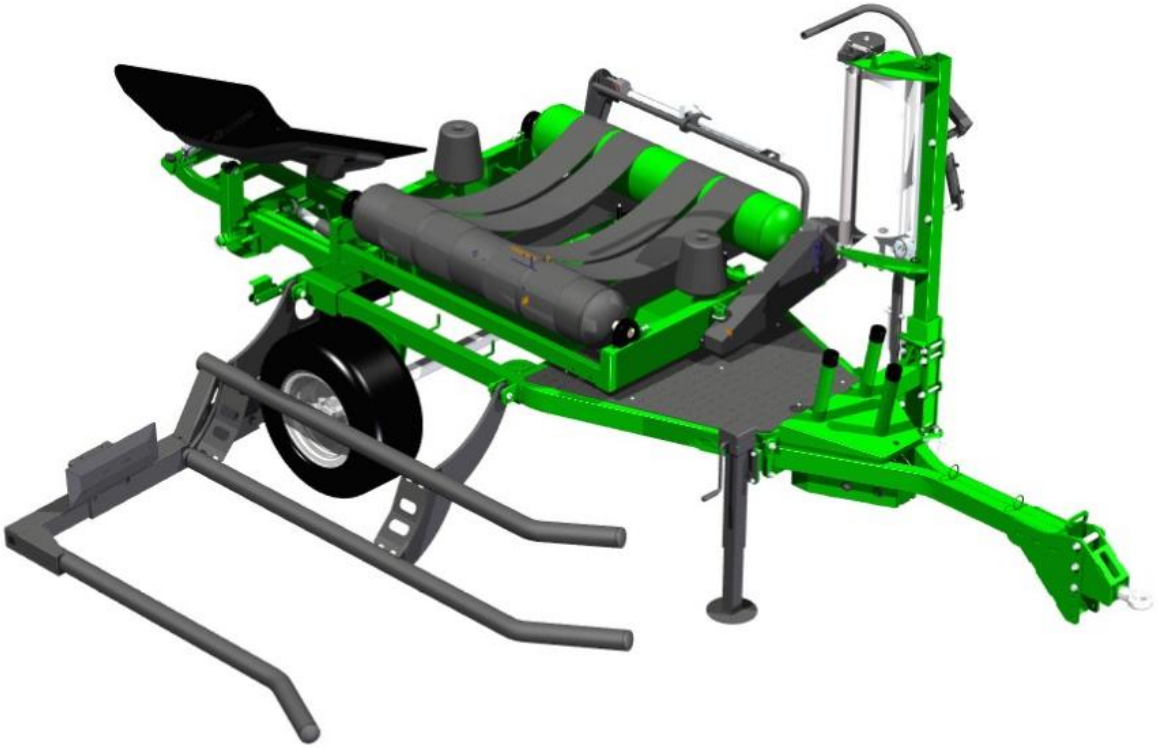
ORIGINAL USER MANUAL

SPARE PARTS CATALOGUE

WARRANTY



Self-loading bale wrapper

SPRINTER 1500

Borzytuchom 2022 – Revision 05

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CAUTION!
Read this Instructions Manual prior to using the machine and observe the safety rules described herein.
The Instructions Manual is an integral part of the machine!

Keep the Instructions Manual in a safe place, where it should be accessible to the machine operator during the entire lifespan of the machine.

In the event of its loss or damage, the user must acquire a new copy from the machine dealer or manufacturer.

In the event the machine is sold or made available to another user, the Instructions Manual must be attached with the declaration of conformity for the machine.

TALEX guarantees the efficient operation of the machine, providing it is being used in accordance with the technical and operating conditions specified in this INSTRUCTIONS MANUAL.
All faults revealed during the warranty period will be repaired by the In-Warranty Repairs Service.
The repair performance date is included in the WARRANTY CERTIFICATE.

Machine parts and components which are subject to wear in normal operating conditions are not covered by the warranty, regardless of the warranty period.
In-Warranty repairs cover only instances such as: mechanical damages not
caused by the user, manufacture defects of parts, etc.
The machine shall not be covered by the warranty conditions when damage is caused by:

- mechanical damage caused by the user or a traffic accident,
- improper use, adjustment and maintenance, use of the machine for a purpose other than intended,
- operating a damaged machine,
- repairs by unauthorised persons,
- unauthorised changes to the machine structure,
- the use of the machine by persons unfamiliar with this Instructions Manual.

The user is obliged to immediately report any noticed
damages of paint coat or spots of corrosion, and order repairs regardless
whether or not the damages are covered by the warranty. Warranty conditions are specified
in detail in the WARRANTY CERTIFICATE attached to the purchased machine.

CAUTION!

It is required to request the dealer to properly fill in the WARRANTY CERTIFICATE. For example, if the date of sale or the stamp of a dealer are missing, there is a risk that complaints will not be considered valid.

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Table of contents

1. Introduction 6
2. Machine identification 7
3. Rules of safe operation 9
3.1. User safety 9
3.2. Residual risk assessment 11
3.3. Safety signs on the machine 14
4. Intended use of the machine 19
5. Equipment, design and operating principle 20
5.1. Basic equipment 20
5.2. Technical specification 21
5.3. Operating principle 23
5.3.1 Film dispenser 24
5.3.2 Rotary frame 25
5.3.3 Bale tipper (unloading) 26
5.3.4 Cut and hold 28
5.3.5 Electrical system 30
5.3.6 Hydraulic system 33
6. Machine operation 35
6.1. Installing the bale wrapper 36
6.2. Connecting bale wrapper to a tractor 36
6.3 Levelling the bale wrapper 37
6.4. Transport position 37
6.4.1 Principles for driving on public roads 39
6.5. Switching between methods for unloading bales 41
6.6. Bale grab adjustment 42
6.6.1 Displacement of the tractor's drive centreline in relation to the bale 43
6.7. Film adjustment 44
6.7.1 Correct film tension 44
6.7.2 Adjusting film tension 46
6.7.3 Adjusting film dispenser height 47
6.8 Film installation 48
7. Technical servicing 50
7.1 Adjusting the chain tension of the rotary frame 50

7.2 Adjust the tension of the table roller chain 52
7.3 Adjusting the bale tipper 53
7.4 Adjusting the tension of the belts 54
7.5 Changing film width 55
7.5.1 Changing the chain transmission ratio of the driving table roller 55
7.5.2 Changing the lower holder position of the film dispenser post 56
7.6 Maintaining the axle 57
7.6.1 Checking the running axle bearings for play 57
7.6.2 Removing play in the running axle bearings 58
7.6.3 Mounting and dismantling wheel, checking nuts for tightness 59
7.6.4 Checking air pressure, assessing the technical condition of tyres and steel rims 61
8. Control system 62
8.1 Control unit 62
8.1.1 Description of functions of the control unit 63
8.2 Operating modes 65
8.3 Control panel operation 65
8.3.1 AUTO mode 66
8.3.2 SEMI-AUTO mode 67
8.3.3 MANUAL Mode 68
8.4 Menu 69
8.4.1 Changing the operating mode 69
8.4.2 Changing the bale weight 70
8.4.3 Statistics 70
8.5 Changing speed in automatic and semi-automatic modes 73
8.6 Contact details 75
8.7 Date and time settings 75
8.8 Choosing the language 76
8.9 Application update 76
8.10 Last fault 77
9. Maintenance 78
9.1 Maintenance after work 78
9.2 Machine lubrication 79
9.3 Storage 82

9.4 Troubleshooting 83
10. Disassembly, disposal and environment protection 87
11. Additional equipment 88
12. Spare parts catalogue 89
12.1 General design 90
12.2 Bottom frame, set 92
12.3 Drawbar, set 94
12.4 Hitch, set 95
12.11 Turntable slide base, set 102
12.14 Rotary frame, set 106
12.16 Film cut and hold, set 109
12.17 Dispenser post, set 111
12.18 Film dispenser, set 113
12.19 Dispenser roller No. 1 114
12.20 Dispenser roller No. 2 115
12.21 Table rollers 116
12.22 Idle table roller, set 117
12.23 Driving table roller 118
12.24 Bale grab, set 119
12.25 Bale tipper, set 120
12.26 Tipper cradle, set 121
12.27 Adjustable arm, set 122
12.28 Hydraulic system 123
12.29 Manifold 126
12.30 Electronic components 127
13. Warranty 128
14. List of warranty repairs 129
15. Warranty form 130
16. Declaration of Conformity 131

1. Introduction

Before the first use of the machine, you must thoroughly read and understand this Instructions Manual, and follow all the instructions contained herein.

CAUTION!

Read the Instructions Manual before use.

This Instructions Manual contains a description of hazards that can occur in case of non-compliance with safety rules during operation and maintenance of the machine. The Instructions Manual specifies precautionary measures to be taken to minimise or avoid risks.

This manual also contains principles of correct use of the machine and specifies the maintenance jobs to be carried out.

If you do not understand any information contained herein, please contact the manufacturer directly.

CAUTION!

This symbol indicates a hazard.

The warning symbol indicates a piece of important hazard information given in the Instructions Manual. Please read the information, follow the instructions and exercise particular caution.

INFORMATION!

This symbol indicates additional information, descriptions of how to operate the machine or references to the sections in this manual.

2. Machine identification

Each bale wrapper has its rating plate, containing the most important identification data. The plate is affixed on the front beam of the machine bottom frame.

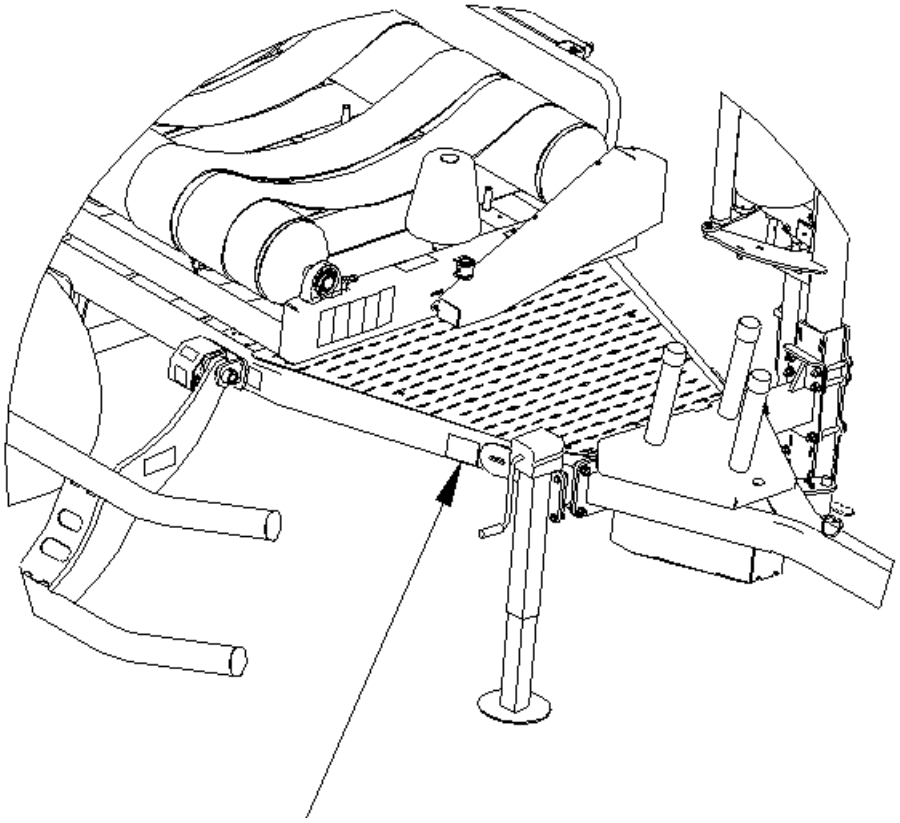


Figure 1 Rating plate

The rating plate includes:
- full name of the manufacturer,
- bale wrapper serial number,
- machine code,
- CE marking,
- weight,
- quality control sign,
- date of manufacture.

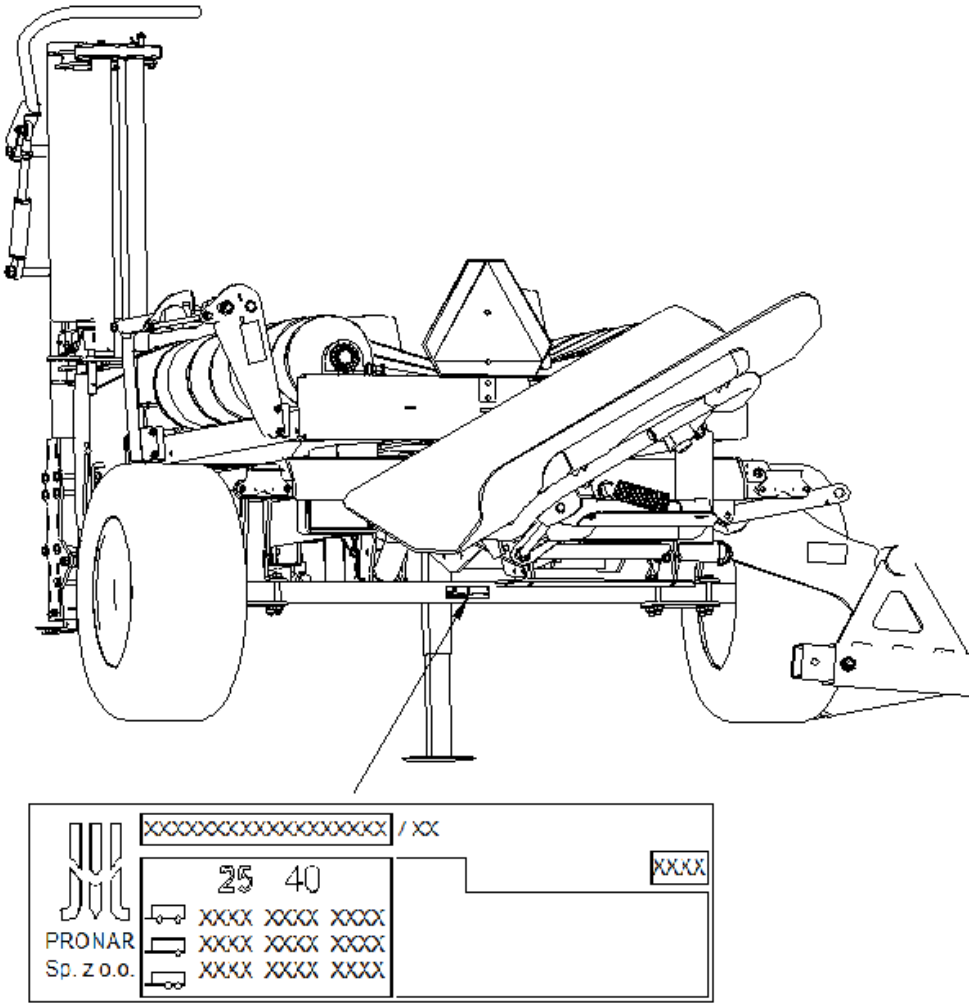


Figure 2 Rating plate of the running axle

The serial number and type of running axle are stamped on the rating plate attached to the axle beam.

3. Rules of safe operation

3.1. User safety

The self-loading bale wrapper can only be operated by adults, who have learnt how to operate it and have read this Instructions Manual, as well as have appropriate qualifications. The bale wrapper should be operated with all necessary precautions taken, in particular:

- Apart from the guidelines contained in this Instructions Manual, observe also general rules of occupational health and safety.
- Observe warning symbols placed on the machine.
- It is strictly forbidden, to operate the machine by persons under the influence of alcohol or other intoxicants.
- Never allow the vehicle towing the bale wrapper to be driven by a person other than the wrapper operator, and under no circumstances allow any other persons to be on the vehicle, or on the machine, during its operation.
- The bale wrapper may be operated by a person who holds a proper driving licence for the vehicle equipped with the bale wrapper, in accordance with the manufacturer's instructions.
- The operator’s workstation while working with the bale wrapper is the cab of the vehicle to which the machine is attached.
- Please note, that there are many elements of the machine that may cause an injury (sharp edges, protruding parts, etc.). During the use of the equipment, exercise particular caution when moving close to the above-mentioned critical spots, and obligatorily use the following personal protection equipment:
  - protective clothing,
  - protective gloves,
  - hearing protection,
  - safety footwear.
- It is forbidden to carry persons or objects on the machine.
- Persons who have not read the Instructions Manual are not allowed to operate the machine.
- The bale wrapper operator must be provided with the complete first aid kit with instructions of use.
- Before starting work, the bale wrapper must be set in the transport position.
- Take special care when driving on public roads, and comply with the applicable road traffic regulations.
- The user is obliged to ensure the visibility of a machine during its transport: use road lightning, the reflective elements, warning signs and the optional equipment, the light warning signal.
- Adjust the transport speed to the condition of the road. The speed should not exceed 25 km/h.
- Do not leave the vehicle with the machine on a hillside or other sloping surfaces, without securing the vehicle from automatic rolling down. Put wedges under the wheels of the vehicle.
- The bale wrapper must be adjusted to working height, during its attachment to the vehicle.

- Any preparations, fitting, dismantling or adjustment can be performed only after the drive has been switched off, the engine stopped, the vehicle immobilised and when all the moving parts of the machine have stopped.
- After the first hour of operation, check all disjoint connections like bolt and pin connections, etc.
- The bale wrapper should be stored on a flat, level, paved surface, out of the reach of bystanders and animals. Use the support foot for stabilising the bale wrapper.
- Exercise caution during the mounting and dismantling of the bale wrapper, and pay particular attention to the structural components through which the machine is connected with the vehicle.
- Before the operation, check the condition of the machine and of the vehicle it is attached to. Ensure the vehicle and bale wrapper are in good technical condition. Any worn or damaged parts must be replaced immediately.
- The bale wrapper must be equipped with all the safety guards (provided by the manufacturer), preventing access to any moving parts. The guards must be complete and fully operational.
- It is not allowed to work with the bale wrapper without safety guards. It is not allowed to work with damaged safety guards.
- It is not allowed to lift the grab arm when the rotary frame drive is engaged.
- Before beginning to work with the machine, learn how to operate it by reading this Instruction Manual taking into account occupational safety rules and recommendations for maintenance and adjustment.
- The Instructions Manual must be kept with the machine. If you loan the machine for use, ensure that it is in good technical condition and that it is complete with the Instructions Manual.
- Do not attach additional transport means to the machine.
- During commissioning, check the machine functions and make the initial adjustments.
- Due to the natural wear and tear the state should be controlled, using the recommendations described in Section 9„MaintenanceMaintenance”.
- When taking over and transporting the machine, inspect its technical condition to check for damage.
- Standing under the raised grab arm is not allowed to prevent being crushed by the components of the machine.
- When adjusting, keep your fingers and limbs away from the structural parts of the machine.
- It is forbidden to leave a tractor’s cabin when the machine is running, and before all the rotating parts have stopped.
- The operator of the vehicle working with the bale wrapper must ensure that no person is approaching the machine during its operation, and the distance of at least 50 m from the working bale wrapper is always maintained.
- Before you start wrapping, check that the rotary frame and other structural components will not collide.

- Ensure suitable visibility when u-turning, reversing or manoeuvring the machine, or ensure assistance from a properly trained person.
- When connecting the hydraulic hoses, make sure that the hydraulic system is not pressurised.
- Do not stay between the vehicle and the machine when the vehicle engine is running.
- **Working on slopes exceeding 5% is not allowed.**
- Exercise particular caution when working on slopes.
- Never leave the vehicle unattended when the engine is running. Before leaving the driver's seat (the cabin) turn off the engine of the vehicle, remove the ignition key, and apply the parking brake.
- Avoid wearing unbuttoned, hanging parts of work clothes during the operation, assembly, disassembly or adjustment. Keep them away from any machine parts which are likely to catch them.
- After work, it is recommended to clean and wash the machine in the wash fitted with a sewage treatment plant or a settling tank to neutralise the resulting waste water.
- The machine should be kept and stored in places protected from unauthorised access of persons and animals, thus eliminating the risk of accidental injuries, and on a flat, hardened surface, under a protective canopy.
- In case of failure, immediately turn off the hydraulic system of the vehicle.
- When working with the machine, use hearing protection headphones to minimise exposure to noise. In addition, it is recommended to close the doors and windows of the vehicle's cab.

Failure to observe the above guidelines may be hazardous to the operator and other persons, as well as damage the bale wrapper. The operator is responsible for any damage caused by failure to adhere to the above rules.

3.2. Residual risk assessment

Talex has made every effort to ensure that the design of the machine, and its intended use, do not pose any risk to persons or the environment.

Due to the nature of work being done by the bale wrapper and, for example, the inability to completely cover the machine's working unit, certain risk factors may occur.

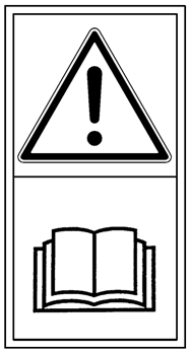
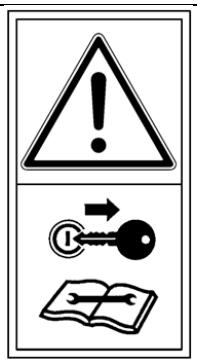
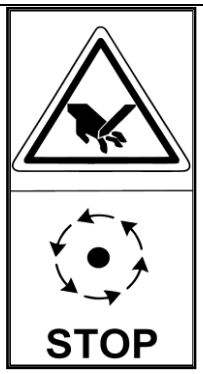
No.	*Risk*	*Risk source (cause)*	*Protection measures against risks*
1	Overloading the locomotor system (physical load)	Working in a standing position, inclined-forced position, walking, moving objects	Read and understand the Instructions Manual; do workplace safety training in carrying weights standards for the manual handling, correct methods of lifting and carrying loads, getting other persons' help, and the use of handling devices such as jacks and winches.

2	Fall on the same level (tripping, slipping, etc.)	Uneven terrain, messy environment - objects lying and standing around, cables lying on communication roads, slippery surfaces	Suitable safety footwear, levelled terrain, paying attention, maintaining order, reading the Instructions Manual.
3	Bumping into stationary, protruding parts of the machine	Machine and its surroundings	Proper positioning of a machine, safe space to move around, proper organisation of work, paying attention, reading the Instructions Manual
4	Being hit by moving objects	Crop bales ejected by the machine, rolling bales on sloping ground	Maintaining caution, marking the danger zone, banning any traffic next to the working machine, banning people standing next to the working machine, reading the Instructions Manual.
5	Sharp, dangerous edges	Protruding parts of the machine structure, use of hand tools	Personal protective equipment – safety gloves, buttoned-up work clothes, exercising special attention.
6	Gears	Rotating components of the rotary frame and table rollers, guards for moving parts removed	No traffic nearby, approaching or making adjustments on the running machine, exercising caution, using guards for moving parts, reading the Instructions Manual.
7	Weight of the standing machine	Improper mounting, aggregating, wrong setting of the machine, improper operation	Exercising special attention, use of personal protective equipment - safety footwear, safety gloves, the secure position of the machine, the help of others, reading the Instructions Manual.
8	Microclimate - variable weather conditions	Work carried out in varied weather conditions	Suitable work clothes, beverages, creams with sunscreens, proper rest, reading the Instructions Manual.
9	Noise	Too high rotational speed of the machine, damaged, loose or vibrating parts	Operation of the machine in good technical condition, inspections on a regular basis, proper rotational speed, reading the Instructions Manual.
10	Impact to the head, trunk, lower limbs and hand cuts. Impact by moving parts of the machine.	Getting in the wrong position during grab movements. Being in close proximity to a working machine.	Paying special attention, use of personal protective equipment: safety footwear, protective gloves, secure setting of the machine, use of appropriate tools, cautious work without haste, reading the Instructions Manual. Keep away when the machine is running.

11	Risk of crushing and impact	Changing the actuator arm positions during work when working parts rotate, working with safety guards removed	Exercising special caution, never approach the machine when it is working, never approach the rotating machine, prevent actuators from spontaneous movements, wear close-fitting clothes. Read the Instructions Manual. Observe the warnings on the machine.

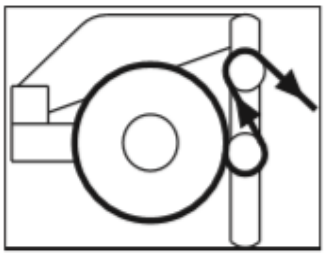
Table 1Residual risk assessment

3.3. Safety signs on the machine

		
1.1 – Prior to using the machine, read the Instructions Manual.	1.2 – Switch off the engine and remove the ignition key before any maintenance or repair procedures.	1.3 – Danger of limb injuries. Do not reach for the cutting blade.
		
1.4 – Maintain a distance of at least 50 metres from the working machine.	1.5 – Danger of crushing. Do not stand in the area occupied by the folding bale grab arm.	1.6 – Do not touch the machine components until fully stopped

1.7 – Check the degree of tightness of the running wheel nuts and other bolt connections regularly.

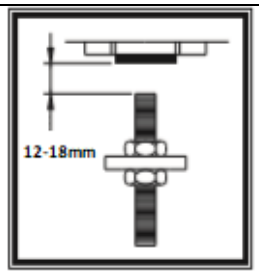
1.8 - Avoid exposure to liquids flowing under pressure. Read the Instructions Manual and learn about the maintenance works



1.9 – Wrapping film installation method.

1.10 – Direction of table rotation.

1.11 – Lifting hook location during transport.



1.12 – Information on sensor

1.13 – Maximum tyre pressure symbol.

1.14 – Grease nipple symbol denoting the grease lubrication point.

adjustment.		
16 MPa 1.15 – Warning about pressure present in the hydraulic system.	 1.16 – Use a protective coverall.	 1.17 – Use safety gloves
 1.18 – Use a protective helmet.	 1.19 – Use hearing protectors.	 1.20 – Use safety glasses.

Table 2 Safety signs on the machine

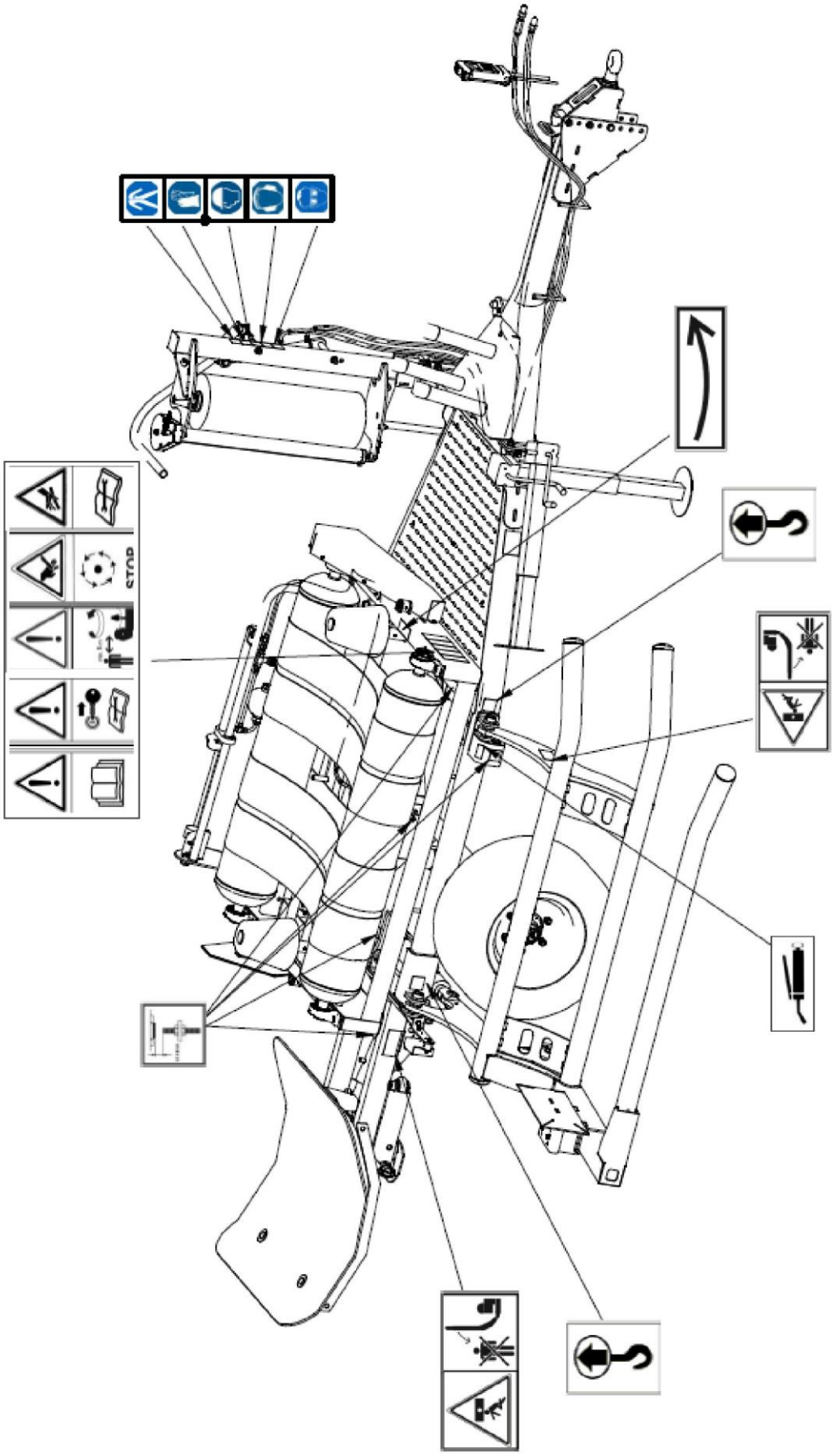


Figure 3 Signs on the machine

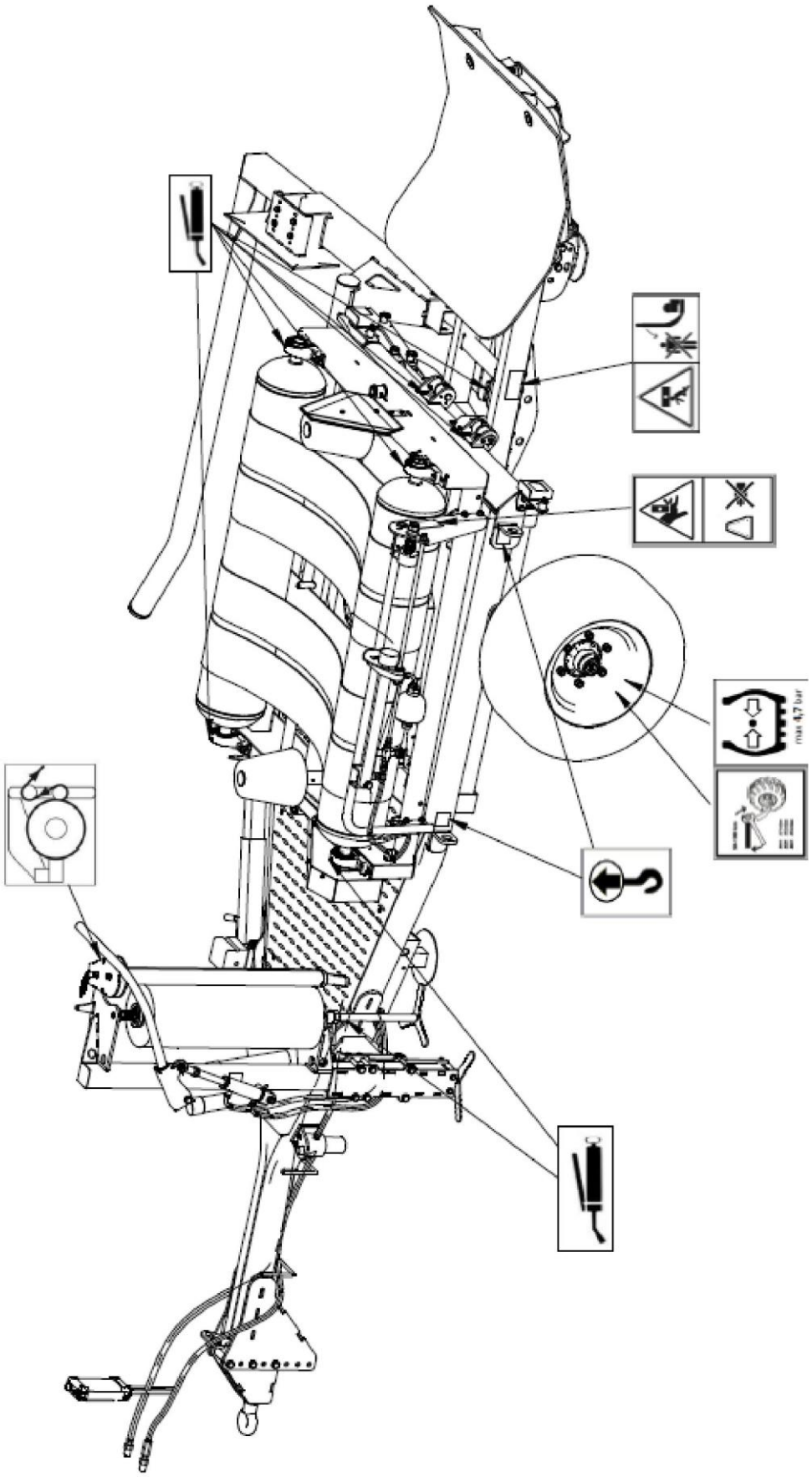


Figure 4 Signs on the machine

4. Intended use of the machine

The bale wrapper is designed for wrapping film around a crop prepared previously in the shape of a bale. The maximum weight of material to wrap must not exceed 1,100 kg and 1,500 mm in diameter. Rolled bales can be wrapped with a 500 or 750 mm wide stretch film. Using the machine in other circumstances will be construed as inconsistent with the intended use. Strict compliance with the requirements for the use of the machine and operation and maintenance as recommended by the manufacturer is a prerequisite for use as intended.

The machine should be operated, serviced and repaired by people familiar with its specific characteristics and the rules of conduct in terms of occupational safety.

The bale wrapper has been designed in accordance with current safety requirements and machinery standards. The permissible speed of the bale wrapper on public roads is 25 km/h. During operation (wrapping), the maximum speed of the combination must not exceed 5 km/h, provided that the ride takes place on flat, level ground. Accident prevention regulations and all basic rules of safety and hygiene, as well as traffic regulations, must always be observed.

Intended use involves the observance of the correct and safe operation and maintenance of the machine. This is why the user is obliged to:

- Read and follow the contents of the INSTRUCTIONS MANUAL.
- Understand the operating principle of the machine and the safe and correct use of the bale wrapper.
- Observe the general safety regulations during work.
- Observe the scheduled maintenance and adjustment.
- Comply with road traffic regulations.
- Couple the machine with an agricultural tractor only if such a tractor meets all the requirements set by the Manufacturer of the bale wrapper.

Unauthorised the changes in design of the machine without permission of the manufacturer waive the manufacturer's liability arising due to any resulting damage or injury.

It is forbidden to use the bale wrapper for any purpose other than that for which it was intended and to operate the machine by persons who are not familiar with the Instructions Manual, the safety regulations and the instructions manual of the agricultural tractor.

5. Equipment, design and operating principle

5.1. Basic equipment

The bale wrapper comes complete with the basic equipment listed below:

- Instructions Manual,
- Spare parts catalogue,
- Warranty Certificate.

The bale wrapper is a welded construction consisting of frames built from steel profiles and interconnected with pins or bolts. The bottom frame to which the unbraked running axle is bolted is the base which is coupled using the drawbar with the tractor. The loading arm hereinafter referred to as a bale grab is positioned along the right-hand edge of the machine and performs the loading movement of the crop. The rotary frame is the base for the table rollers which drive the rotation of the bale around its two axes of rotation. The turntable slide base underneath the rotary frame, pinned to the bottom frame, is to unload bales by a hinged tilt to the rear of the machine, where the bale tipper captures them and positions them with precision as required. In the front part of the bale wrapper, there is a film dispenser on a post, adapted to unwind 500 or 750 mm wide film. A film cut and hold is mounted on the side of the rotary frame to cut off and hold the film for subsequent cycles automatically.

The basic version of the machine offers three operating modes:

- Auto mode,
- Semi-auto mode,
- Manual mode.

This is enabled with a control system connected to the hydraulic system driving machine movements. The hydraulic system is protected by an oil filter mounted on the left-hand side of the drawbar mounting frame. The electrical system is fitted with a 10 A fuse in the top section of the control unit to protect the controller.

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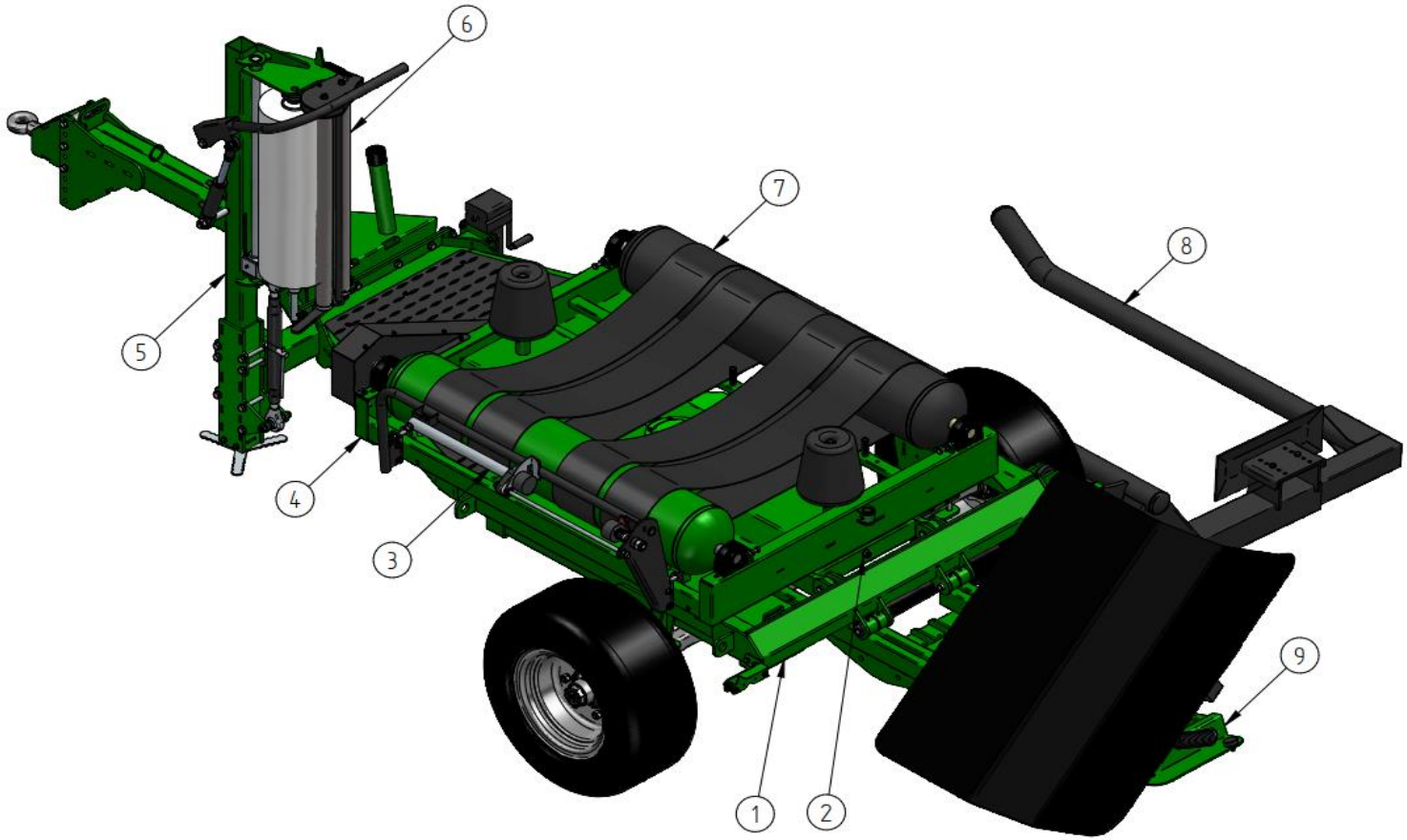
5.2. Technical specification

The main components of the bale wrapper are shown in the figure below.



1 – Bottom frame
2 – Turntable slide base
3 – Film cut and hold
4 – Rotary frame
5 – Dispenser post
6 – Film dispenser
7 – Table rollers
8 – Bale grab
9 – Bale tipper

Figure 5 Bale wrapper main components

Technical-operational data are provided in Table .

No.	Description	UoM	Parameter
1	Total length in transport position	[mm]	2685
2	Total length in working position	[mm]	5910
3	Transport width	[mm]	2395
4	Working width	[mm]	3750
5	Height in the transport position	[mm]	1465
6	Height in the working position	[mm]	2620
7	Kerb weight	[kg]	2060
	Permissible payload capacity	[kg]	1100
8	Permissible speed of the turntable	[rpm]	30
9	Required tractor power	[kW], (HP)	≥35, (48)
10	Hydraulic motor oil demand (min÷max)	l/min	14.5÷23
11	System max. pressure	Bar/MPa	160/16
12	Hydraulic sockets	-	As per ISO 7421-1
13	Oil type	-	SUPER UDT, API GL-4+
14	Required tractor hitch	-	Single-axle trailer hitch
15	Electrical system voltage	V	12
16	Connection sockets	-	7-pole (ISO 1724), cigarette lighter socket or 3-pin socket
17	Operation capacity	[bales/h]	~45
18	Noise level	[dB]	70
19	Number of wheels	[pcs.]	2
20	Size of tyre	-	350/50-16
21	Tyre air pressure	[kPa]	470

Table3 Bale wrapper technical and operational data

5.3. Operating principle

The bale wrapper uses a grab arm (1) mounted along the main frame (2) to feed formed crop onto the table roller and belt assembly (4). Driven by a bevel gear and chain drive, the rollers turn the bale around their own centreline to offset layers of film, which one after the other are rolled out from the film dispenser (5). This unit is placed on a rotary frame (3) driven by a chain drive to rotate the bale. After the wrapping is complete, the rotary frame (3) is hinged out, the cut and hold (6) cuts off the film, the bale tipper (7) captures the bale and then puts it down in a vertical or horizontal position.

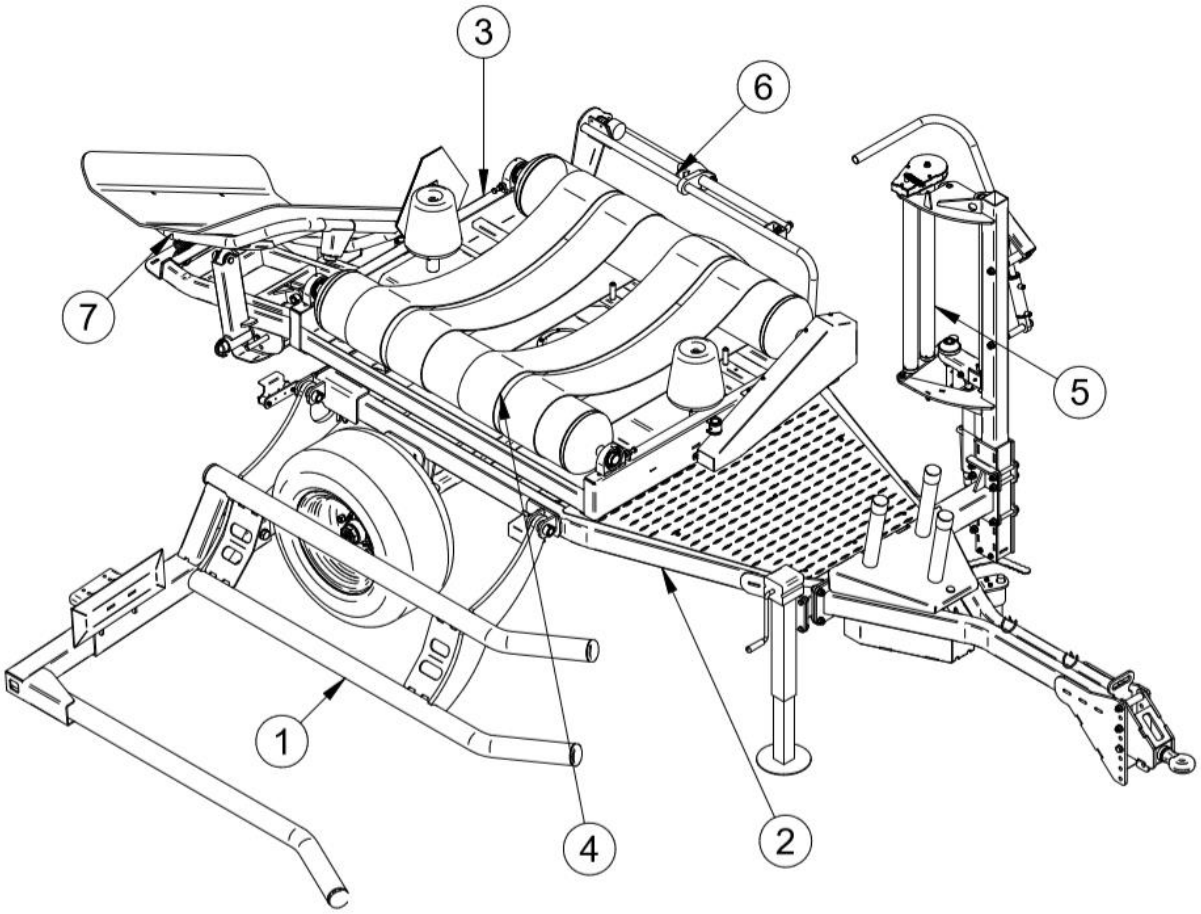


Figure 6 Bale wrapper operating principle

(1) grab, (2) main frame, (3) rotary frame, (4) table roller and belt assembly, (5) film dispenser, (6) film cut and hold

5.3.1 Film dispenser

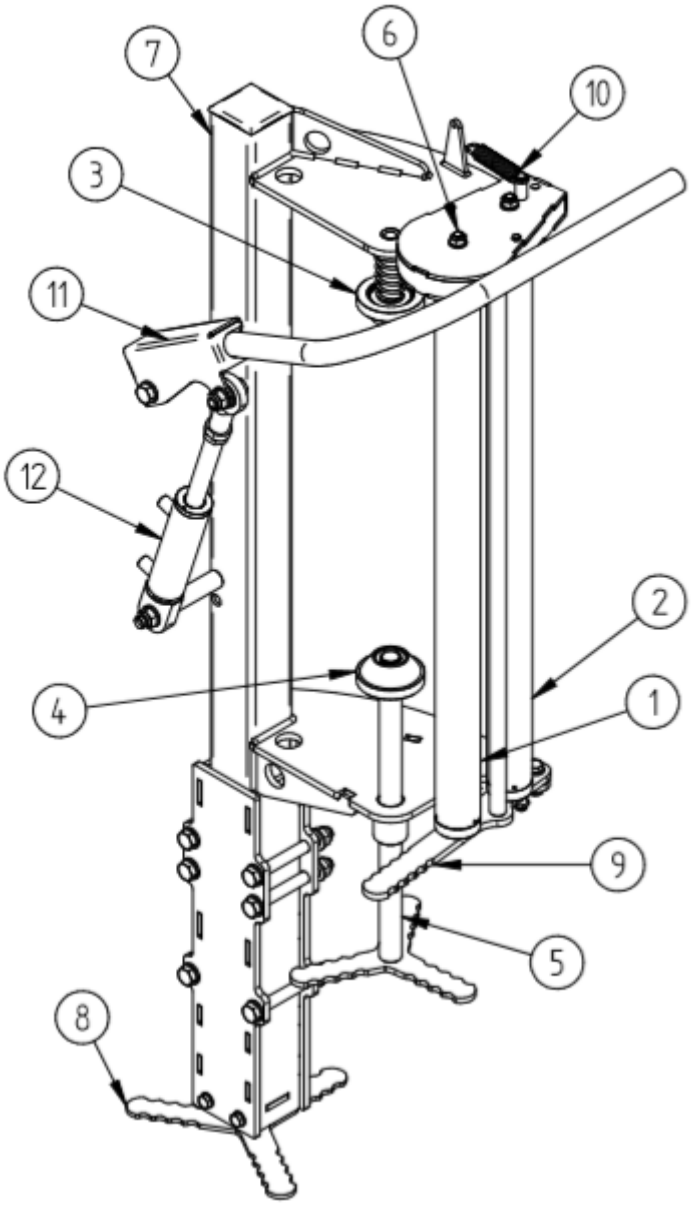


Figure 7 Film dispenser design

(1) roller I, (2) roller II, (3) top roll holder, (4) lower roll holder, (5) pressure screw, (6) gear, (7) dispenser post, (8) height adjustment screw handle, (9) roller frame, (10) spring, (11) film scraper frame, (12) scraper actuator

The dispenser is adapted for film with a width of 500 or 750 mm. It is installed on the dispenser post (7) and adjusted with screw with handle (8). The film roll is mounted between the conical holders (3) and (4). The film layer is threaded through the knurled rollers (1) and (2) (Figure 32), which are fixed to the frame (9) and fastened with tensioning gears (6). The tension is also adjusted by the position of the pressure screw (5). An actuator (12) is responsible for the movement of the scraper arm (11).

5.3.2 Rotary frame

The rotary frame is fixed on a slide base attached with pins to the rear beam of the lower frame and with a belt and table rollers assembly (3) mounted on its upper part in bearing units (5). The telescopic actuator is used to hinge the table to unload bales. The slide base accommodates a hydraulic motor which incorporates a chain drive for rotating bales around their vertical centrelines. The horizontal movement of bales is also achieved thanks to the rotation of the table through a bevel gear mounted in its central part, connected by a shaft with the chain drive (1), which transmits the drive to the driving table roller (2), which sets the belts (4) in motion. The bale is held in the correct position by the side bumpers (6) and the correct tension of the belts, see Section 7.4 (Figure 37). For bales with a width in excess of 1,250 mm, the bumpers (6) must be placed on the external mounting brackets (7).

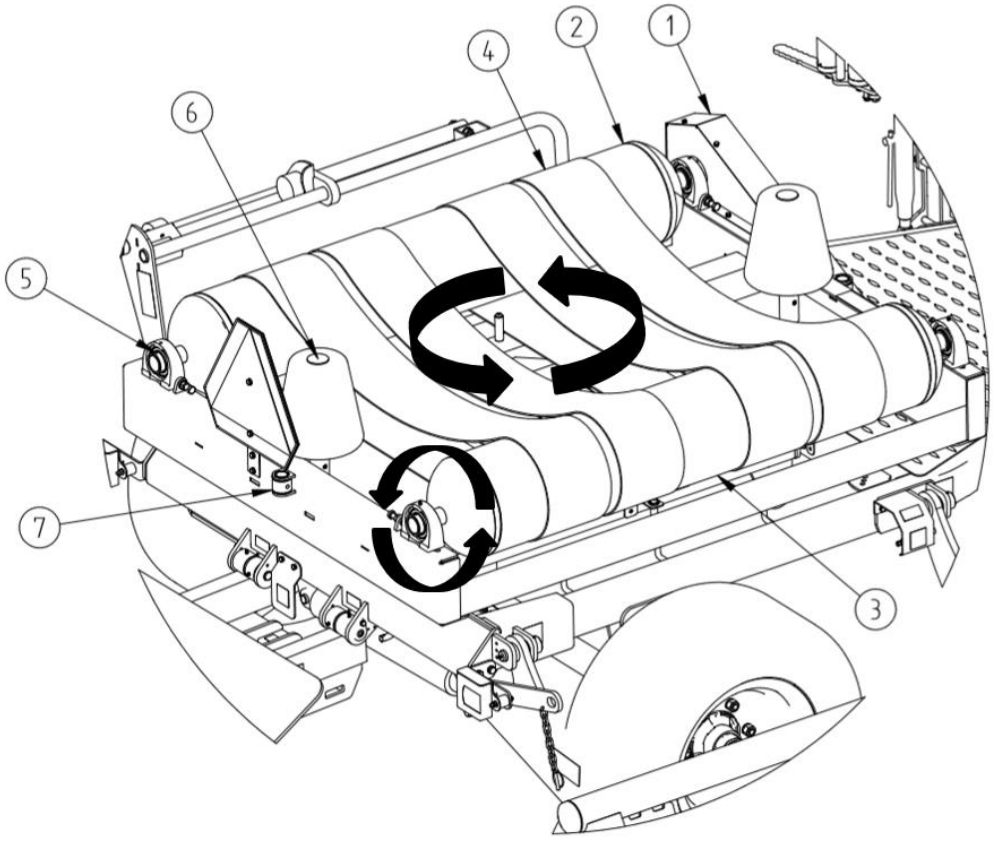


Figure 8 Movement of the rotary frame
(1) chain drive, (2) driving table roller, (3) table roller and belt assembly, (4) belts, (5) bearing unit, (6) side bumper, (7) outer holder

5.3.3 Bale tipper (unloading)

The bale tipper is designed for capturing and unloading bales safely in one of the two possible positions. The method of switching the unloading positions is described in Section 6.4.

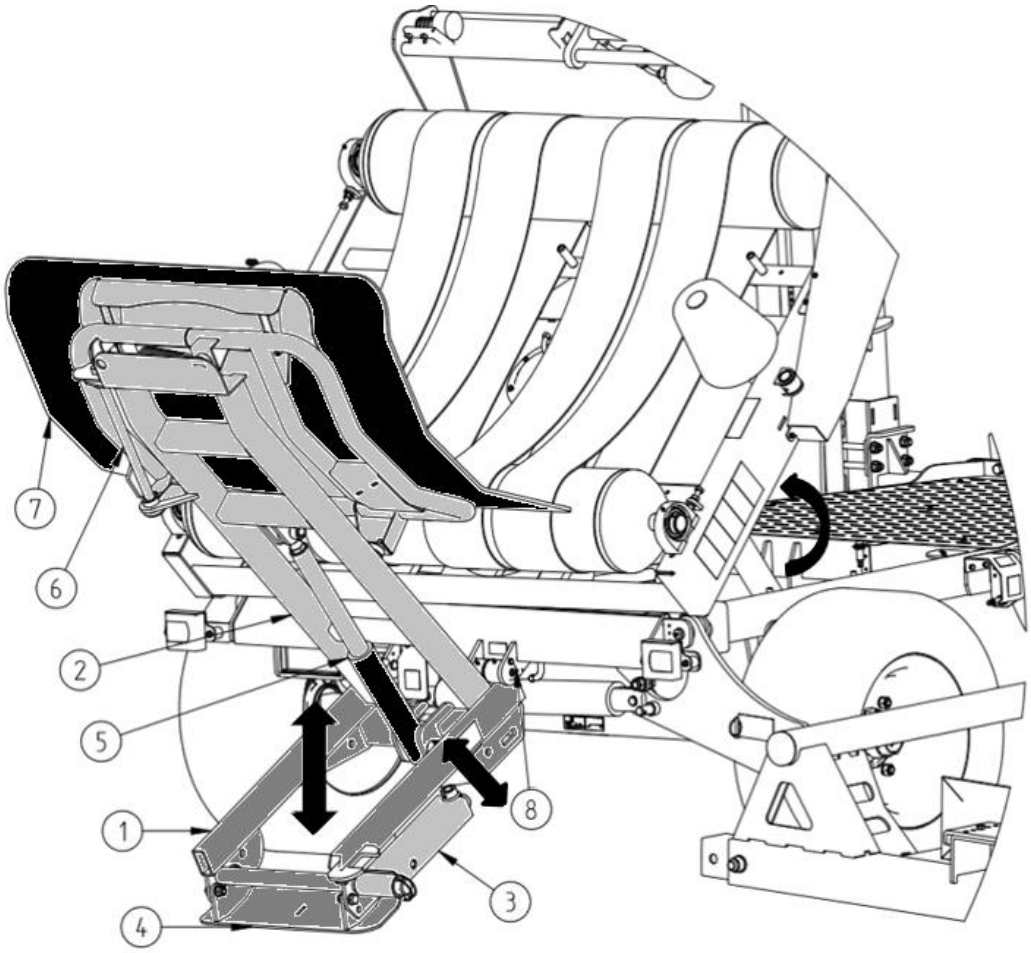


Figure 9 Components of the bale tipper
(1) outer frame, (2) cradle frame, (3) adjustable arm, (4) foot plate, (5) actuator, (6) cradle rotation pin, (7) moving cradle, (8) tipper hinge pins

The bale tipper consists of an outer frame (1) and an inner cradle (2) fixed with pins (8) to the rear beam in the bottom frame. The actuator (5), automatically activated when the bale is unloaded from the rotary frame, moves the cradle frame. The foot plate (4) is lowered which is caused by the unloading movement of the rotary frame and the movement of the bumper mounted on the outer frame (1) under the turntable slide base. The adjustable arm (3) on the right-hand side of the bale tipper can be set in two positions (Figure 10). If set to the position (A), the bale will roll over behind the bale wrapper after unloading. In variant (B), when the adjustable arm (3) is raised to the vertical position, the cradle frame will be lowered to rest against the roller of the adjustable arm and rotate around the centreline of the cradle rotation pin (6). The bale will be placed on the left side of the cradle in a vertical position (with its bottom on the ground).

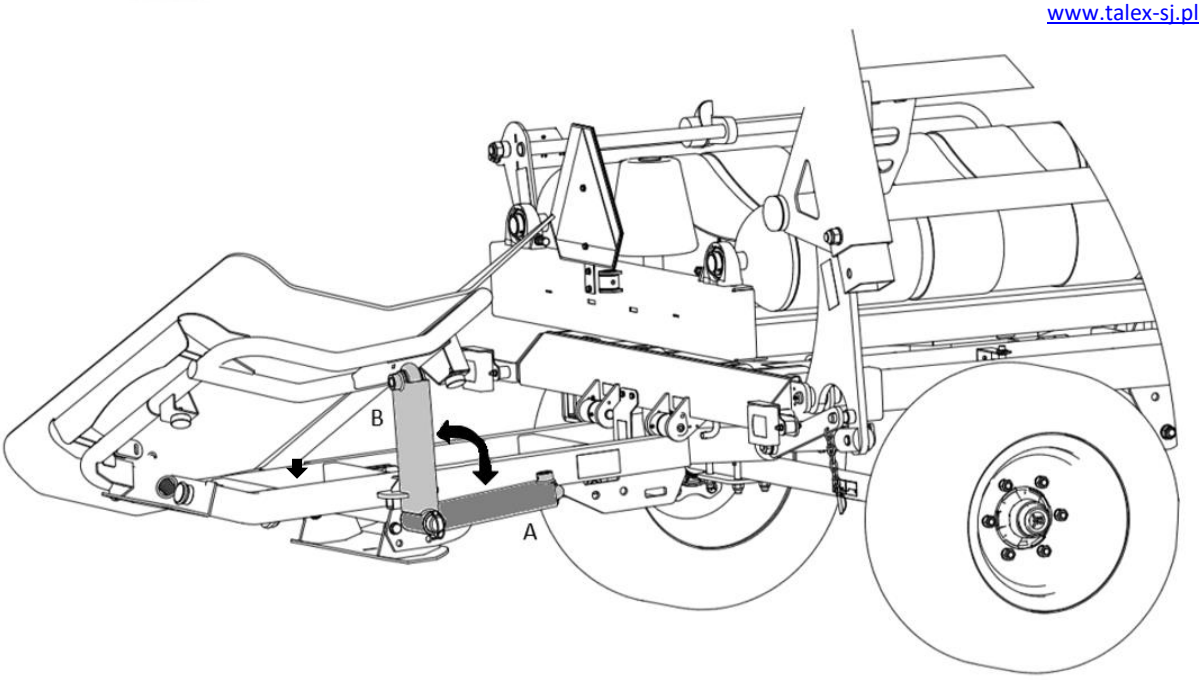


Figure 10 Unloading positions of the bale tipper

(A) set for horizontal tipping, (B) set for vertical tipping

For a description of how to change the bale tipper settings, see Section 6.5.

It is important that the unloading movement from the tipper is as smooth as possible regardless of the weight of the wrapped bale.

For a description of the drop speed control, see Section 7.3.

5.3.4 Cut and hold

The cut and hold is used to cut off the film after the wrapping cycle is complete, and to hold the other end of the film until the next bale is turned twice.

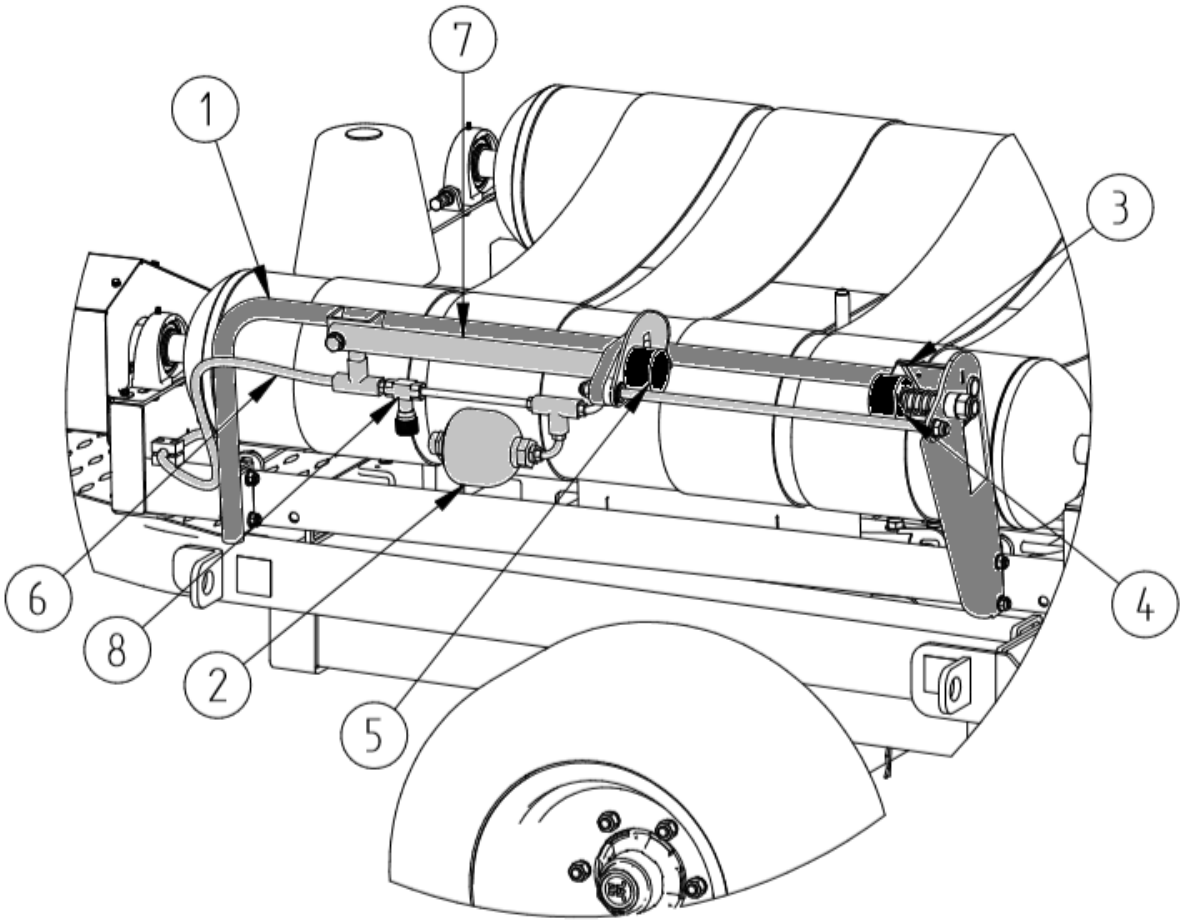


Figure 11 Cut and hold components

(1) cut and hold frame, (2) hydro accumulator, (3) blade, (4) passive buffer, (5) driven buffer, (6) supply line, (7) actuator, (8) throttling valve

The cut and hold is mounted along the driving table roller on the frame (1) screwed to the profile of the rotary frame. The film is cut and held in place by the automatically controlled hydraulic system. The piston in the actuator (7) is pushed out by means of the pressure in the hose (6), while the hydro accumulator (2) is used to push it in. The blade (3) is used for cutting when the film is pressed against it by means of rubber buffers (4) and (5). The hydraulic fluid in the hydraulic accumulator is throttled using a throttling valve (8). When the machine is started, the first cycle starts with the accumulation of pressure in the accumulator, which is automatically repeated every 10 cycles.

Remove the blade guard before starting work, see Figure 12.

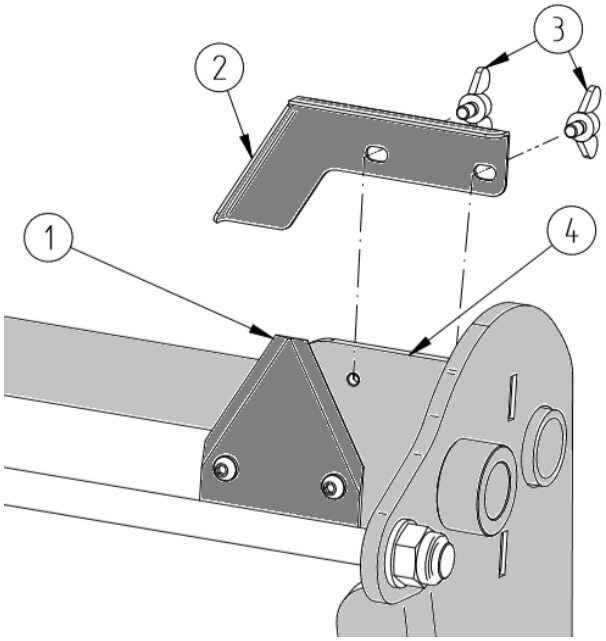


Figure 12 Dismantling blade guard
(1) blade, (2) guard, (3) fastening screws, (4) fastening plate

Protect yourself from accidents related to contact with sharp edges of the blade (1) by using the guard (2). The guard (2) is removed and replaced by fixing the guard (2) to the plate (4) using the screws (3).

Any preparations, fitting, dismantling or adjustment can be performed only after the drive has been switched off, the engine stopped, the vehicle immobilised and when all the moving parts of the machine have stopped.

Before you start wrapping, the blade guard in Figure 12 must be removed.

5.3.5 Electrical system

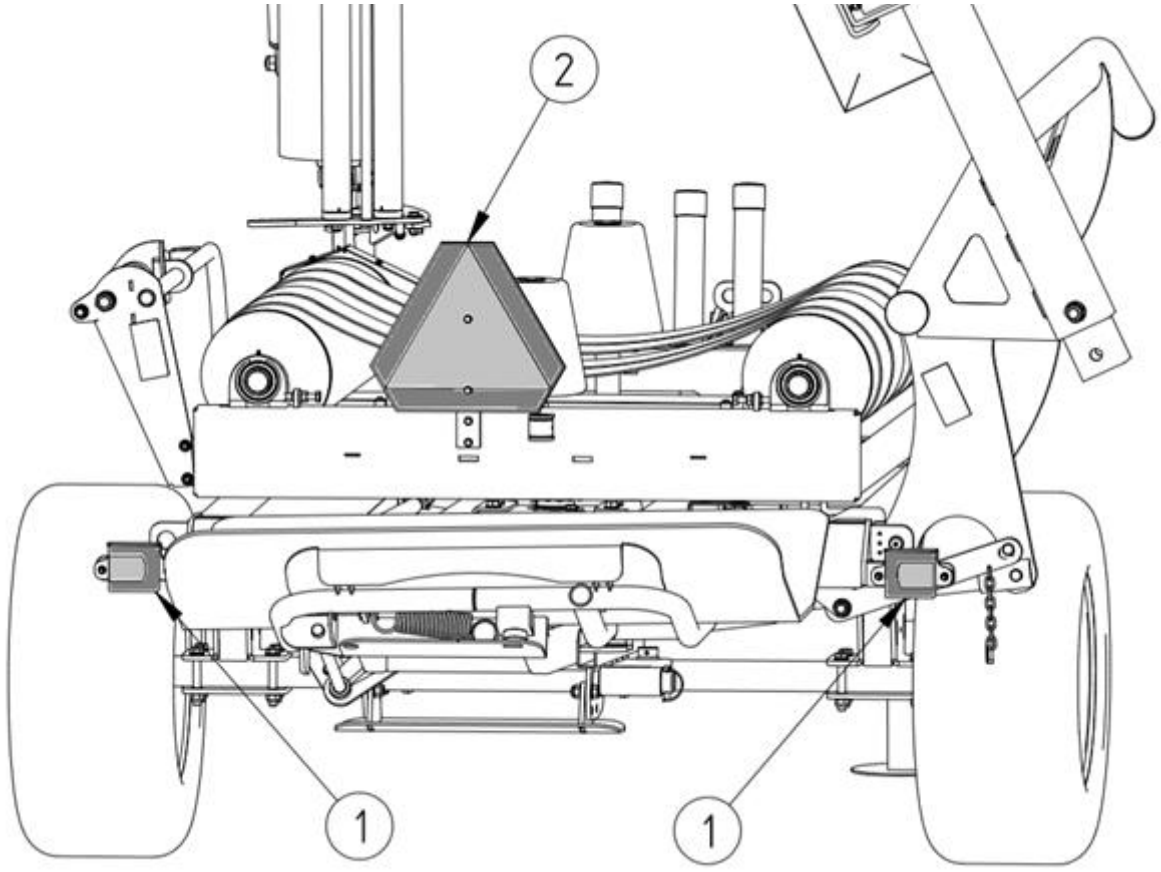


Figure 13 Arrangement of lighting and reflective elements
(1) multifunction tail lamp, (2) warning plate (reflective triangle)

The electrical system of the bale wrapper is designed to be powered from a 12 V DC source. The electrical system of the bale wrapper's lights should be connected to the tractor via a suitable 7-pin plug connection wire. An overview diagram of the electrical system of the bale wrapper is shown in Figure (14).

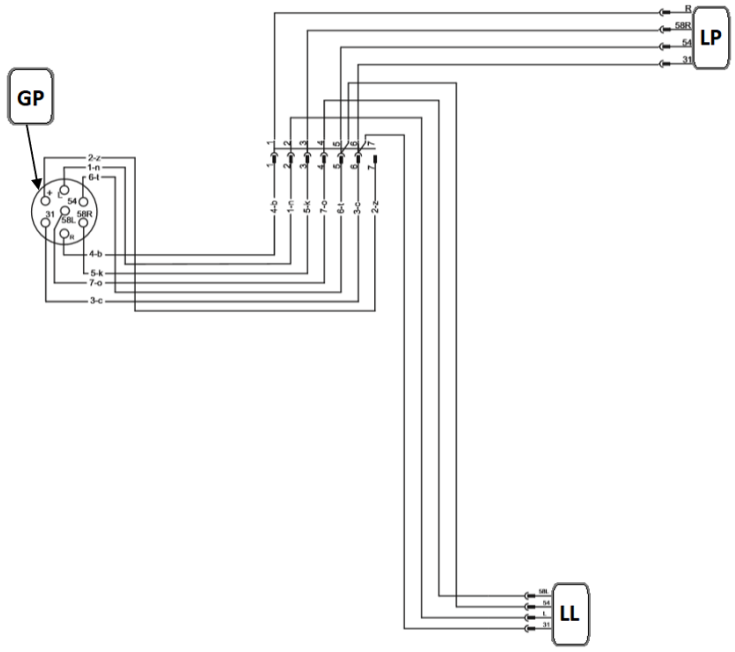


Figure 14 Lighting system diagram
(GP) 7-pin plug connector, (LP) right multifunction tail lamp, (LL) left multifunction tail lamp

Designation	Function
31	Ground
+	Power supply +12 V
L	Left direction indicator
54	Brake light
58L	Tail light, left
58R	Tail light, right
R	Right direction indicator

Table 4 Symbols for socket connections

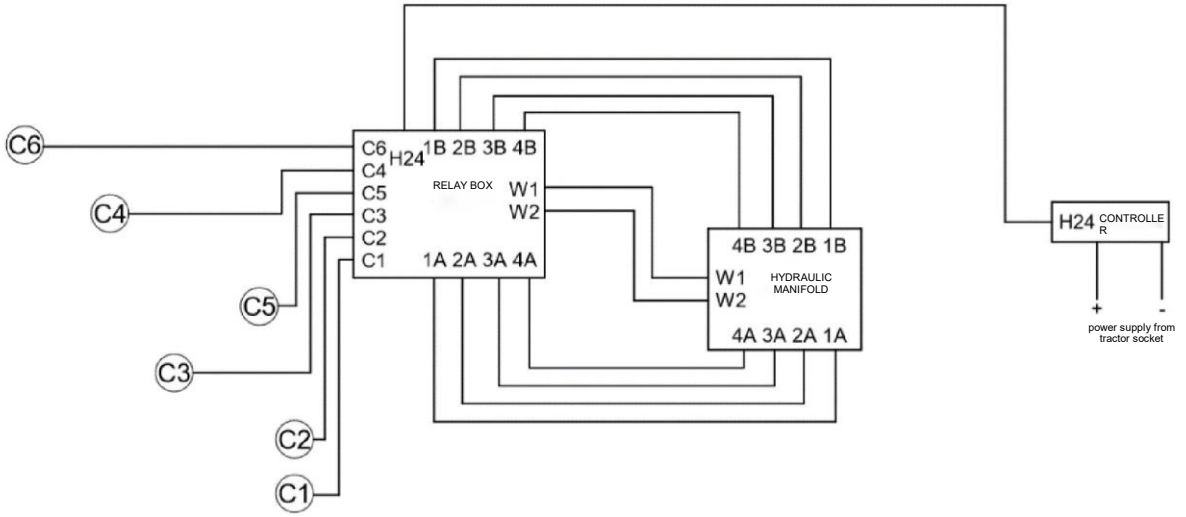


Figure 15 Control system diagram

Symbols	Function
+	+12 V power supply from tractor's battery
-	Ground
C1	Bale grab – bottom position
C2	Bale grab – top position
C3	Bale loading position
C4	Bale unloading position
C5	Table tilt
C6	Bale tipper – table bottom position
1A - 1B	Solenoid valves for bale grab actuator
2A - 2B	Solenoid valves for turntable's hydraulic motor
3A - 3B	Solenoid valves for table tilt, bale tipper, scraper
4A - 4B	Solenoid valves for film cut and hold
W1	Proportional solenoid valve
W2	Balanced solenoid valve

Table 5 Symbols for control system

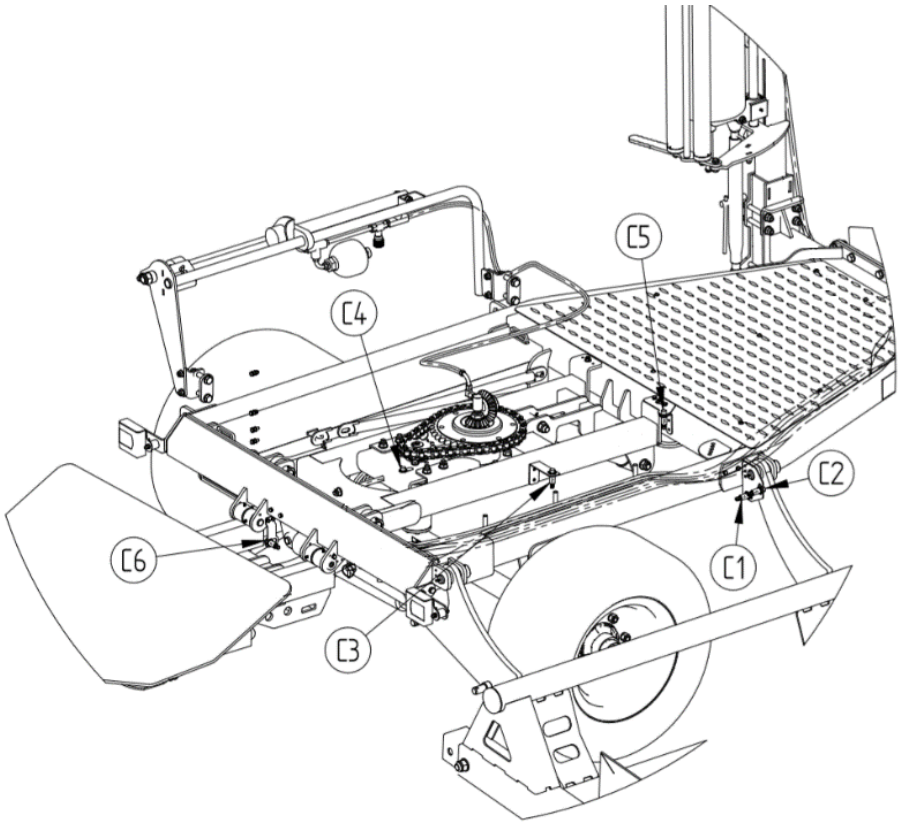


Figure 16 Positions of sensors in the frame

It is forbidden to work with sensors switched off or damaged, as their proper functioning protects the machine from damage.

5.3.6 Hydraulic system

Bale wrapper's hydraulic system is controlled by means of a manifold controlled from a control unit. The system is powered by a tractor pump with the option of return by one extra line of a so-called “free drain”. The hydraulic system is under high pressure during the operation of the bale wrapper, so the condition of the connections and hoses must be checked regularly. Operation with a leaking or damaged system is not permitted. In case of a malfunction, the machine must be taken out of service until it is repaired. Before carrying out repair or maintenance, make sure that the system is depressurised. Hydraulic oils should be stored in original containers or in packaging adapted to their storage, paying particular attention to the effect of hydrocarbons.

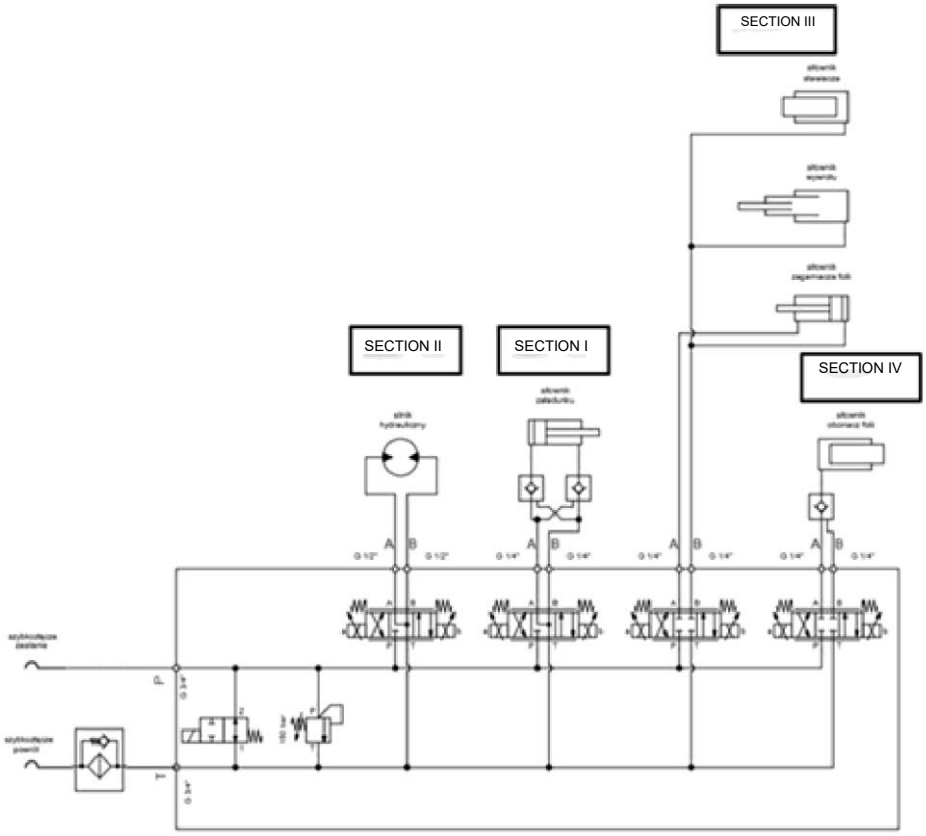


Figure 17 Bale wrapper hydraulic system diagram

SECTION I

By controlling the pressure on Section I, used for bale grab actuator movement, you can raise and lower the bale loading arm, which places crop between the table rollers on the rotary frame.

SECTION II

It uses a hydraulic motor to drive the gears activating the rotation of the rotary frame and the table rollers assembly.

SECTION III

It is used to move three actuators:
- film dispenser actuator, which pulls the film to be cut off,
- telescopic tilt actuator for the rotary frame,
- bale tipper actuator used for capturing and putting bales down.

SECTION IV

It drives the cut and hold actuator, which is designed to perform two functions:

- - cut off the film from a bale to be put down,
- - hold the film on the side of the dispenser before the next cycle.

6. Machine operation

The manufacturer shall ensure that the machine is fully operational and has been checked before being put into service. Nevertheless, the user is obliged to check the machine after delivery and before the first use. Before commencing any works related to coupling the bale wrapper with the tractor, the user should check the technical condition of the machine and prepare it for commissioning. In order to do so, the user should:

a) read carefully all the information related to the safety, design, functioning, operation, transport, technical service, etc. included in the manual,
b) familiarise themselves with the design and operating principle,
c) check the completeness of the machine, whether all require protections, screws are in place,
d) check the condition of screw connections, whether all screws are tightened – Table,
e) check the condition and pressure of tyres,
f) check the appropriateness of wheel mounting,
g) check the painting coating condition,
h) check the overall condition of the machine with regard to any damage caused during transport, loading or due to other circumstances (breakage, indentations, cracks, punctures, etc.),
i) check all lubrication points, whether there are lubrication signs (if needed, lubricate acc. to the guidelines in Section " Machine lubrication"),
j) check that the drawbar, bale grab arm and bale tipper are attached correctly,
k) check that the film dispenser post is fixed properly,
l) check the hydraulic system for tightness,
m) check the proper operation of the lighting system,
n) check the proper operation of the protection sensors.

After performing all activities and stating that the machine condition raises no concerns, the user may couple the bale wrapper with the tractor.

Before every time the machine is used, its technical condition needs to be checked, and especially the condition of units like rotation transmission system, hydraulic and electrical systems.

6.1. Installing the bale wrapper

The bale wrapper can be coupled with the tractor of power not higher than 35 HP equipped with a single-axle trailer hitch. Coupling the bale wrapper with the tractor should be performed on hard and even ground.

Before coupling the bale wrapper, read the Instructions Manual carefully. Additionally, always pay particular attention to maintaining safety during aggregating the machine with the tractor!

6.2. Connecting bale wrapper to a tractor

Procedure to be performed to connect the bale wrapper:

- drive your tractor up to the bale wrapper,
- on the reverse gear, slowly reverse towards the bale wrapper's hitch (1) ensuring nobody is standing between the machine and the tractor or in the immediate surrounding of the machine,
- when reversing, move the tractor's hitch (4) as close as possible to the bale wrapper's hitch,
- stop the tractor and prevent its accidental movement,
- connect the machine's hitch to the tractor's hitch with a pin (2), secure with a locking pin,
- lift the support foot (Figure 22),
- connect hydraulic conduits of the machine (3) to tractor hydraulic sockets,
- connect the electrical wiring to the tractor's power supply socket.

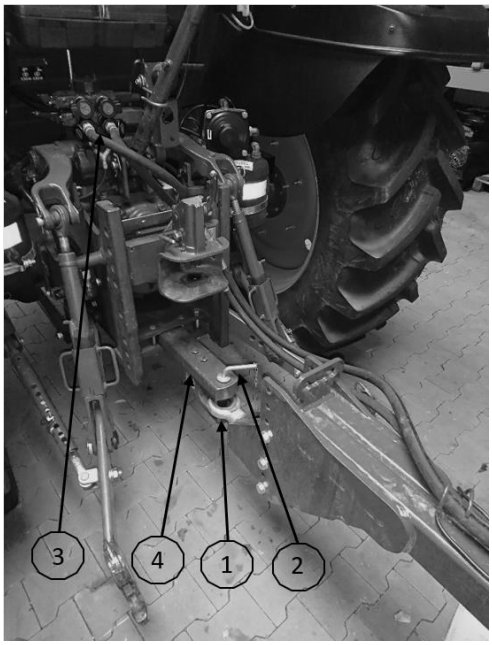


Figure 18 Coupling bale wrapper with a tractor

(1) drawbar eye, (2) pin, (3) hydraulic hoses, (4) tractor hitch

Coupling the bale wrapper with the tractor should be performed on hard and even ground.

6.3 Levelling the bale wrapper

Level the bale wrapper before use. To do this, position the machine on level ground, adjust the level with the crank in the support foot and then adjust the height of the drawbar relative to its mount in the tractor.

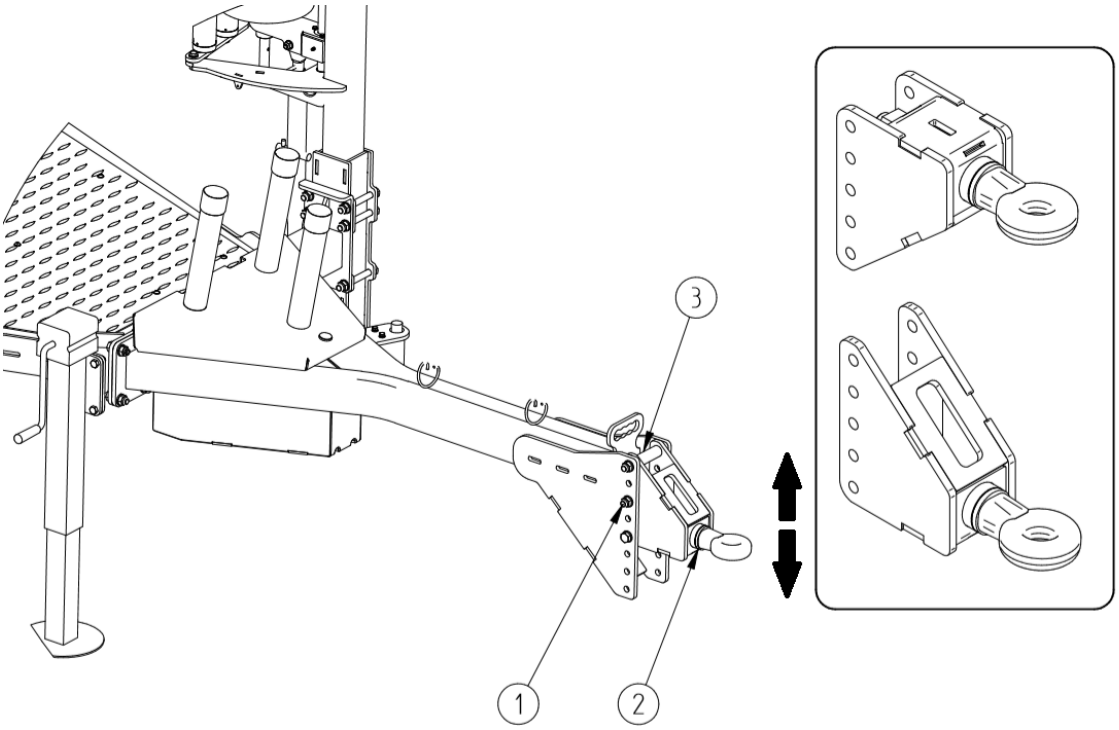


Figure 19 Drawbar position adjustment
(1) bolt connection, (2) drawbar, (3) sleeves

The machine must be levelled before it is coupled with the tractor. When setting the machine horizontally, pay particular attention to the position of the drawbar hitch and, if necessary, adjust it to the mounting height on the tractor. This job requires the drawbar hitch (2) to be removed by unscrewing the fixing screws (1) together with the sleeves (3) using a wrench in size 24. Then set the drawbar eye at the height of the hitch on the tractor and fix it to the machine with the bolts (1), remembering to install the spacer sleeves (3) beforehand.

6.4. Transport position

The grab arm is lifted and locked mechanically in the transport position, see Figure 20. Before starting work in the field, remove the locking flat bar (3) from the bale grab (Figure 20) by removing the locking pin (2) from the pin (1) to remove the flat bar and put it securely in the working position (Figure 21).

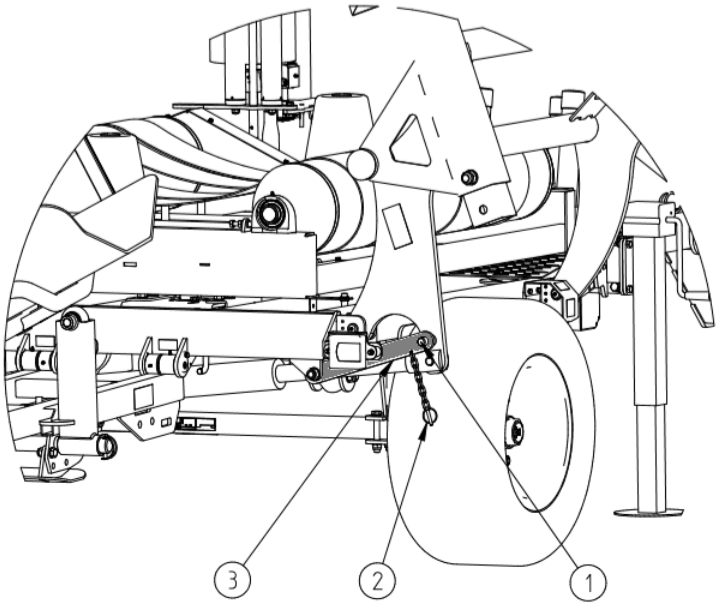


Figure 20 Mechanical grab lock

(1) pin, (2) locking pin, (3) locking flat bar

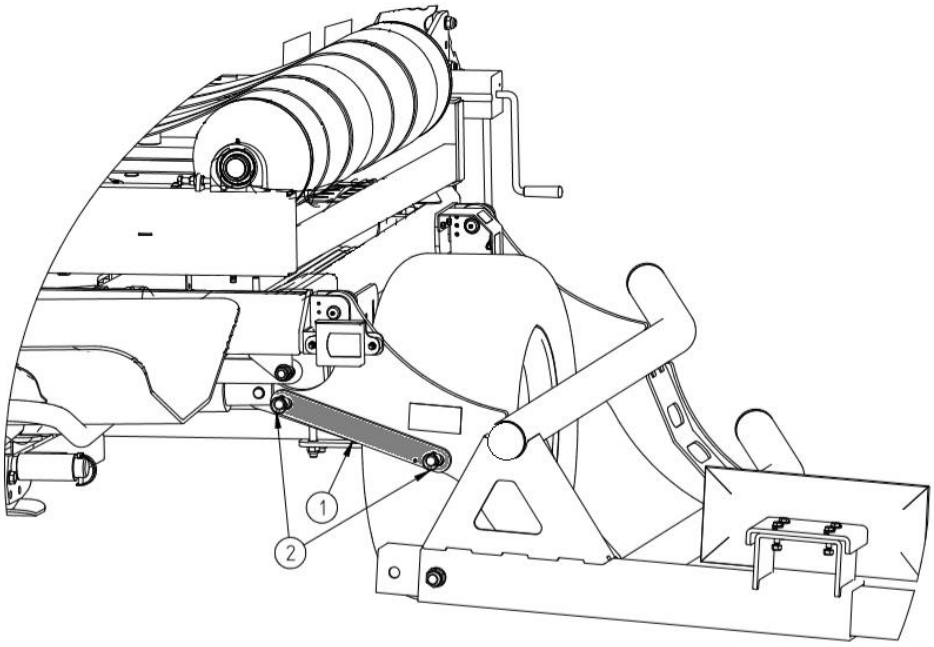


Figure 21 Grab securing in the working position

(1) Locking flat bar, (2) locking pin

After hitching the machine with the tractor inst. 6.2, lift the support foot, Figure 22.

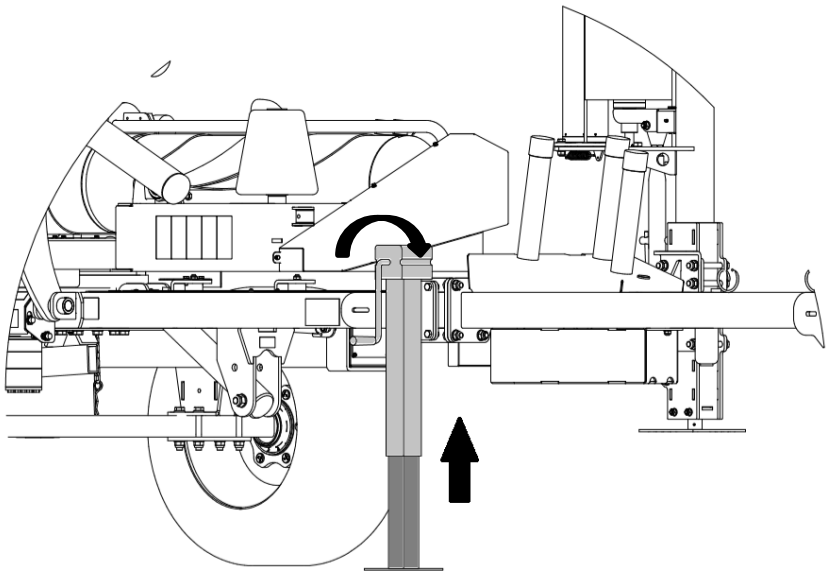


Figure 22 Support foot

6.4.1 Principles for driving on public roads

- Adhere to the provisions in the Highway Code;
- Do not exceed the permitted speeds as specified in the applicable provisions and design constraints;
- When driving to the work site, secure the grab arm with a flat bar and a locking pin, see Figure 20
- Attach a warning triangle for distinguishing a slow-running vehicle for the time of driving on public roads, see Figure 23
- In case of insufficient visibility, attach a red light and reflective element on the rear part of the bale wrapper.
- It is forbidden to carry persons on the machine;
- Only disconnect the machine from the tractor on level ground and after you placed wedges to prevent rolling down.

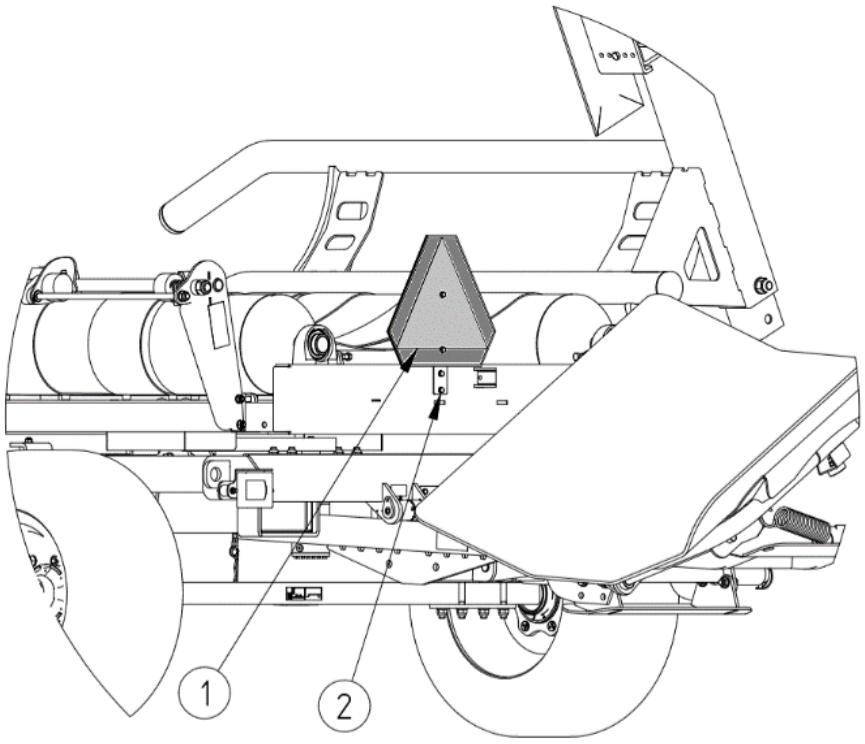


Figure 23 Place for attaching a plate for distinguishing a slow-moving vehicle

(1) warning plate, (2) plate holder

Caution!

Any preparations, fitting, dismantling or adjustment can be performed only after the drive has been switched off, the engine stopped, the vehicle immobilised and when all the moving parts of the machine have stopped.

Caution!

Driving the bale wrapper on public roads with a bale loaded is not allowed.

6.5. Switching between methods for unloading bales

The bale tipper gives two options to unload the crop to be wrapped. The first one allows the bale to roll down behind the machine, while the second one involves standing the bale vertically on its bottom to the tipper's left. The way to unload is switched over by selecting the position of the adjustable arm.

1. Rolling the bale behind the bale wrapper

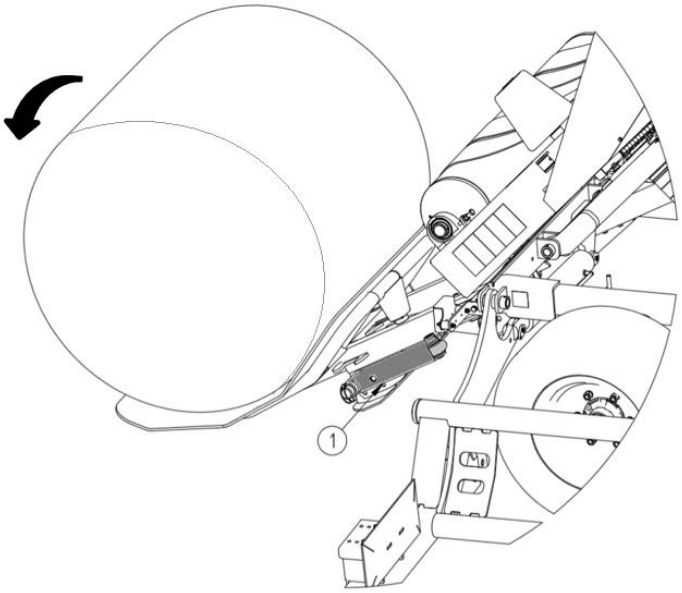


Figure 24 Unloading setting

(1) Adjustable arm

2. Tipping the bale to the side (bottom), to the left of the bale wrapper.

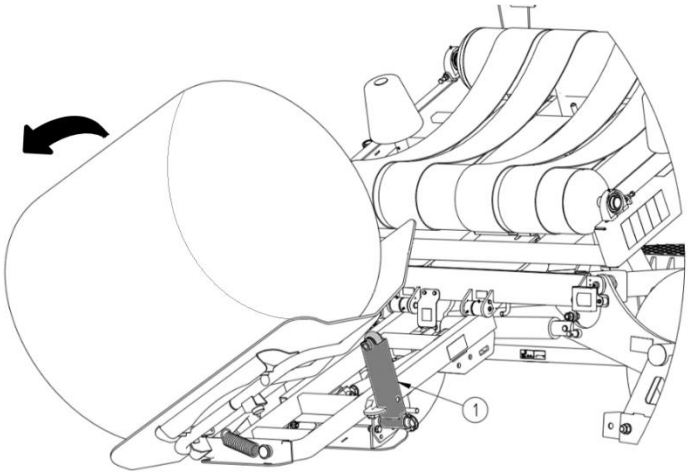


Figure 25 Unloading setting

(1) Adjustable arm

The operation of the bale tipper depends on the position of the adjustable arm (1). When the arm is in the horizontal position, the bale will roll down behind the bale wrapper (Figure 24), while if the arm (1) is in the vertical position (Figure 25), the bale will roll down to the side.

The procedure for switching over the bale unloading way:

1. Lift the cradle frame.
2. Remove the safety locking pin.
3. Switch the adjustable arm.
4. Mount the safety locking pin.
5. Lower the cradle frame.

To change the position of the adjustable arm, the cradle frame needs to be lifted and the adjustment pin removed

6.6. Bale grab adjustment

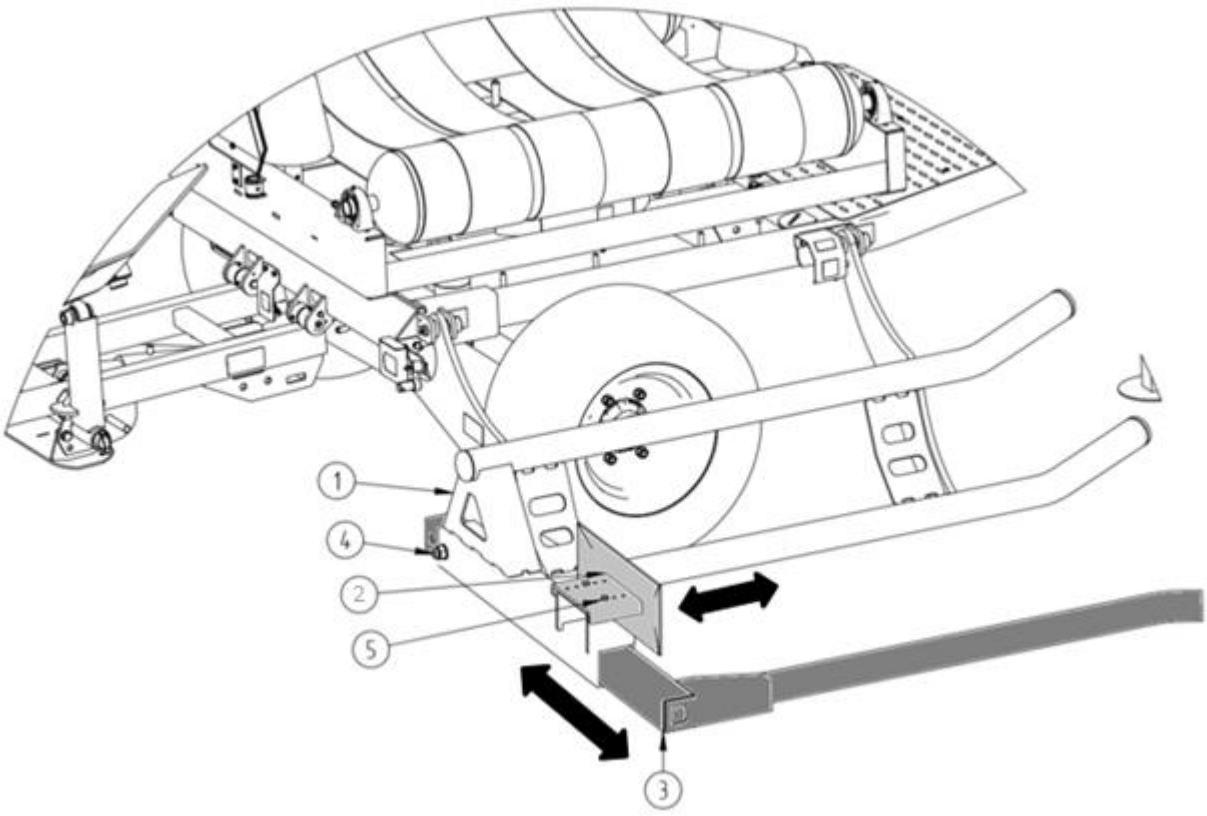


Figure 26 Bale grab arm adjustment

(1) frame, (2) buffer, (3) adjustable arm, (4) lock screw, (5) buffer fixing

Customise the bale grab arm to the size of the baled crop. Setting the adjustable arm (3) ensures the proper loading of the bales onto the table roller assembly. Depending on the length of the bales, set the buffer (2) so that it is in the middle of the table roller assembly when the bale is loaded. The position of the adjustable arm (3) depends on the diameter of the baled crop. Small diameter bales are loaded when

the arm is at its shorter setting, whereas larger bales – at its longer one. The adjustable arm (3) must be locked with the screw (4) against being pulled out.

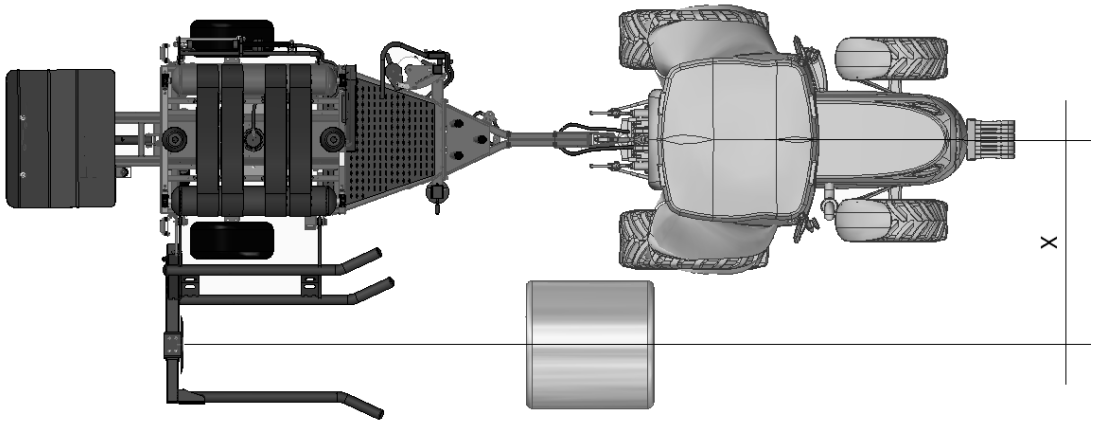
The procedure for adjusting the bale grab arm:

1. Move the bale grab arm to a horizontal position.
2. Unscrew the nut and pull out the lock screw (size 36 wrench).
3. Move the bale grab arm to the desired position.
4. Insert the screw and secure it with a nut – tightening according to Table in Section 9.1.
5. Loosen the buffer adjustment screws.
6. Move the buffer to the desired position.
7. Re-install and tighten the buffer mounting bolts.

When moving the bale wrapper for bale grab adjustment, ensure no unauthorised persons stand in the immediate surrounding of the machine!

6.6.1 Displacement of the tractor's drive centreline in relation to the bale

The determination of the position depends on the position of the adjustable bale grab arm relative to the tractor axle. Adjustments are made according to the diameter of the wrapped bales, where conventionally there are two diameters: 1200 and 1500 mm.



Dimension "X" for individual diameters:

Bale diameter [mm]	Dimension X [mm]
1200	1850
1500	1950

6.7. Film adjustment

The quality of the silage will depend directly on the tension and position of subsequent layers of film. Optimal forage conditions require the adequate squeeze and overlay of the subsequent layers of film. Before starting work, adjust the position of the film dispenser post according to film width, align the dispenser centre with the centre of the bale (Section 6.7.3). Next, measure the film tension (Section 6.7.1) and make adjustments if necessary (Section 6.7.2).

6.7.1 Correct film tension

The width of the film measured at the edge of the bale must be within the range shown in Table 6.

Film size [mm]	Film layer width [mm]	
	55%	70%
500	380	420
700	580	620

Table 6 55-70% pre-tension dimensions

The pre-tension check can be done in two ways:

The first way involves measuring the film width at the bale edge and adjusting the tension until the desired narrowing is achieved, depending on the manufacturer's recommendations. The range of the L-dimension must comply with the requirements set out in Table 6.

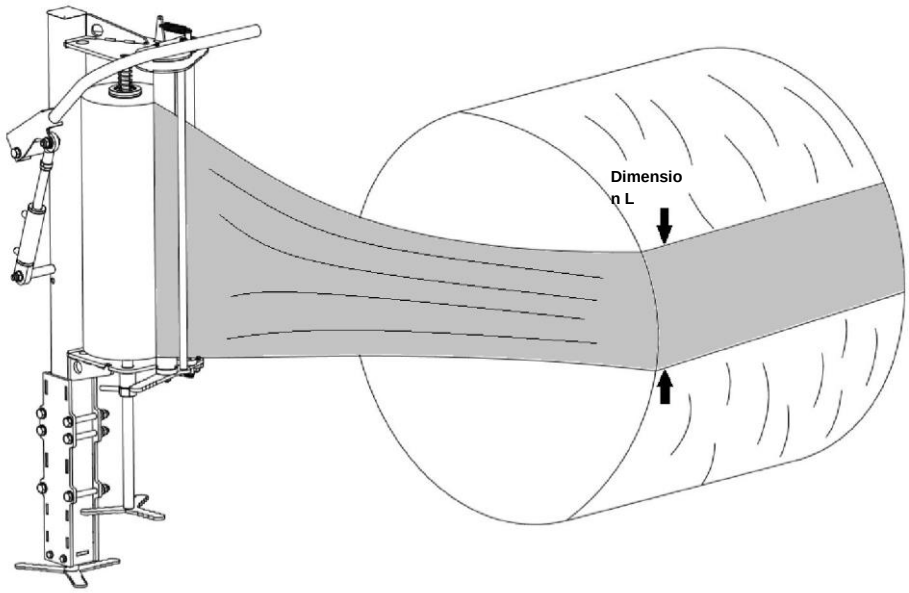


Figure 27 Tension check – method one

Method two involves drawing 2 parallel lines at a distance of 100 mm on a roll placed in the dispenser. As a result of the film stretching, the dimension should increase. The correct distance between lines at the 55-70% film pre-tension must be between 155 and 170 mm.

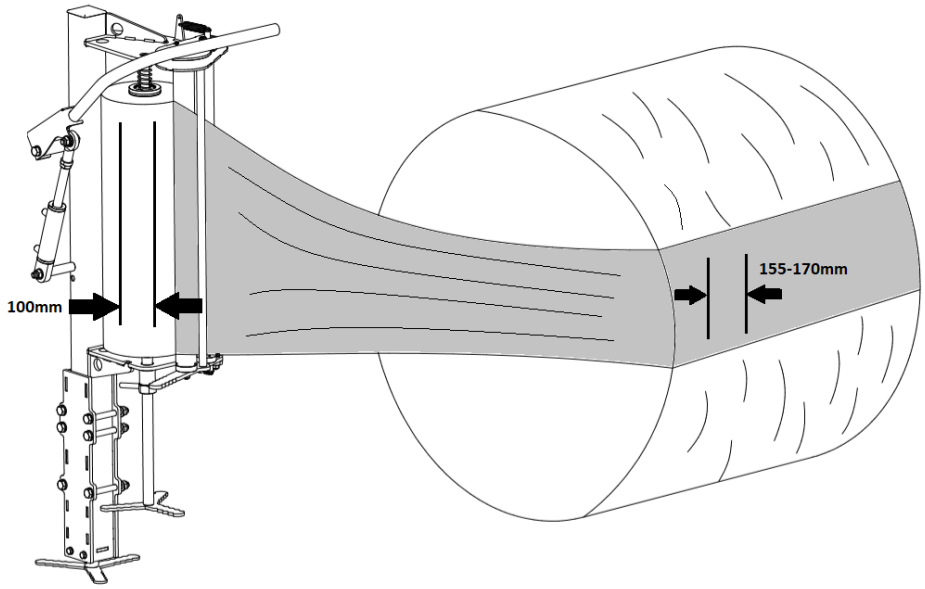


Figure 28 Tension check – method two

Caution

The dimensions of the film are approximate and are given by the manufacturer of the 70% extensible film. Before you start operating the bale wrapper, read the film manufacturer's instructions for setting the pre-tension carefully.

6.7.2 Adjusting film tension

Adjusting film tension

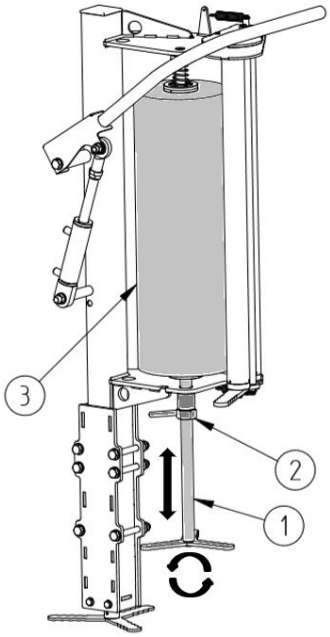


Figure 29 Film tension adjustment

(1) pressure screw, (2) jam nut, (3) film

A sequence of operations for film tension adjustment. Find out the current degree of film tension by ways described in Section 6.6.1.

1. Loosen the jam nut (2) on the pressure screw (1).
2. Adjust the screw pressure by checking the film resistance (3).
   - If the film tension is too high, lower the screw by turning the lever (1) to the left.
   - If the film tension is too weak, lift the screw by turning the lever (1) to the right.
3. Tighten the jam nut (2).
4. Check the tension of the film and repeat the procedure if necessary.

6.7.3 Adjusting film dispenser height

Because you can use different film widths and wrap bales of different diameters, it is necessary to set the film dispenser (2) at an appropriate height. The optimised dispenser position is when the centre of the film is at the same height as the centre of the bale. To adjust the height of the dispenser, use the dispenser post turn lever (1) to move the dispenser unit (2) to the optimum position (Figure 30). The dispenser height should be adjusted after the first bale is loaded.

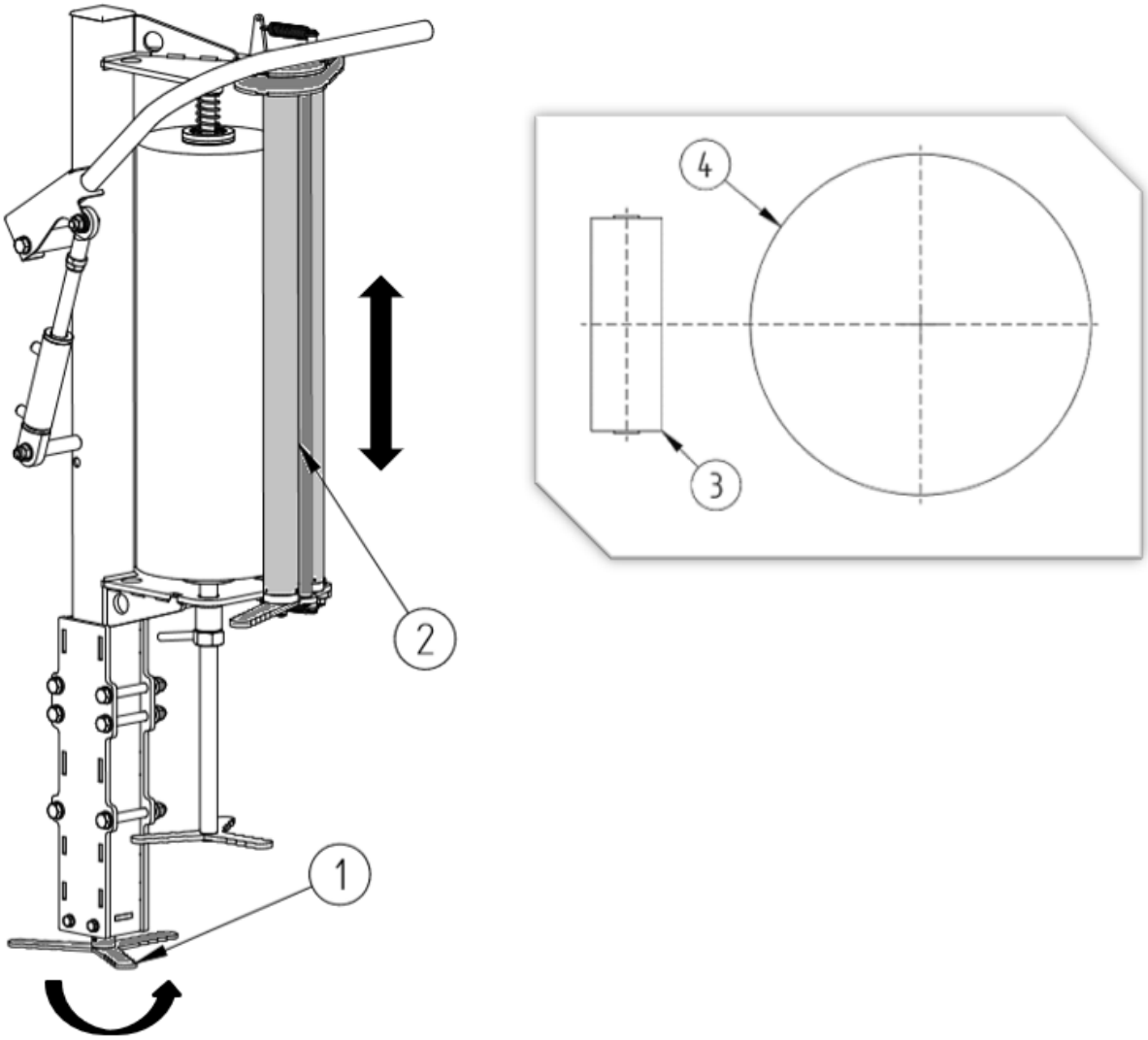


Figure 30 Dispenser height adjustment

(1) dispenser post turn lever, (2) dispenser unit, (3) film, (4) bale

6.8 Film installation

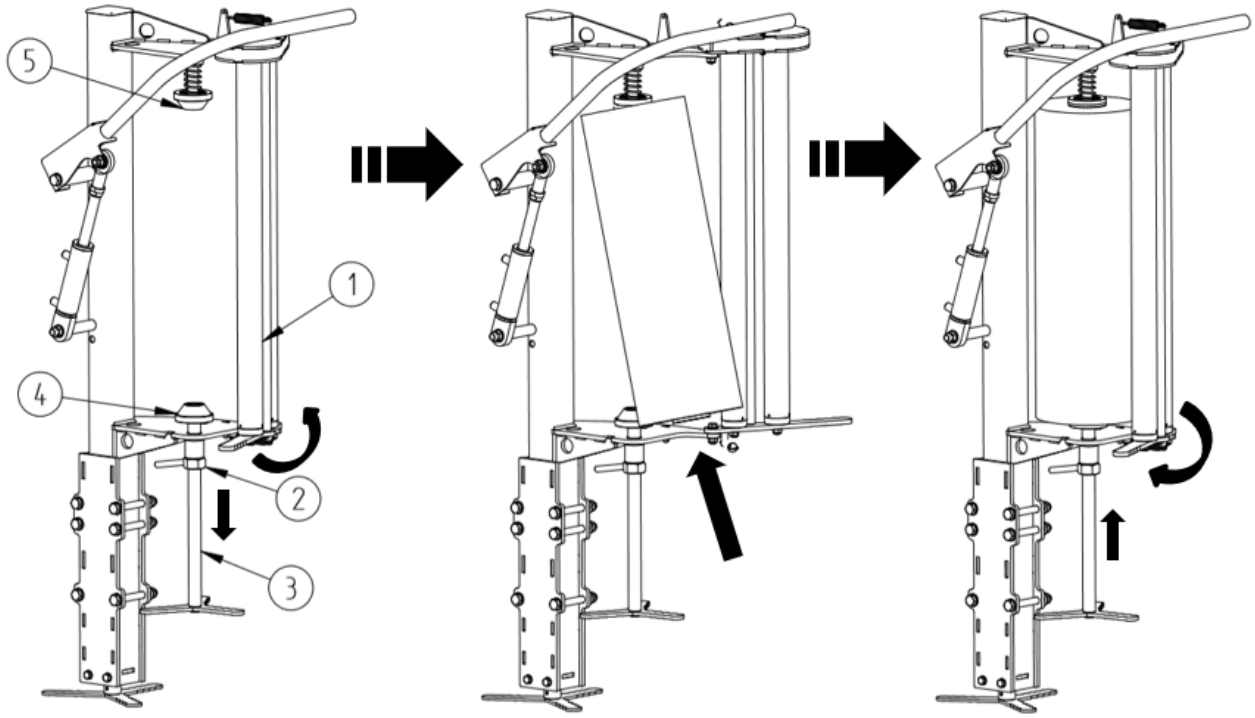


Figure 31 Film installation

(1) roller unit, (2) jam nut, (3) pressure screw, (4) lower holder cone, (5) upper holder cone

To install the film roll, follow the procedure below, maintaining the sequence:

- Clean and lubricate the roller unit (1) of the dispenser using silicone spray.
- Swing the roller unit (1) out.
- Loosen the jam nut (2).
- Lower the lower holder cone (4) by removing the pressure screw (3).
- Position the film roll onto the holder cones (4) and (5), starting from the upper cone (5).
  - The roll must be aligned with the cone centreline.
- Move the lower holder (4) by screwing the screw (3) upwards.
- Secure the position of the pressure screw (3) with the jam nut (2).
- Unroll the initial section of the film.
- Turn the roller unit (1) in such a way that one of them rests on the film.
- Thread the section of film you unrolled through the rollers according to the diagram shown on the dispenser decal (Figure 32).

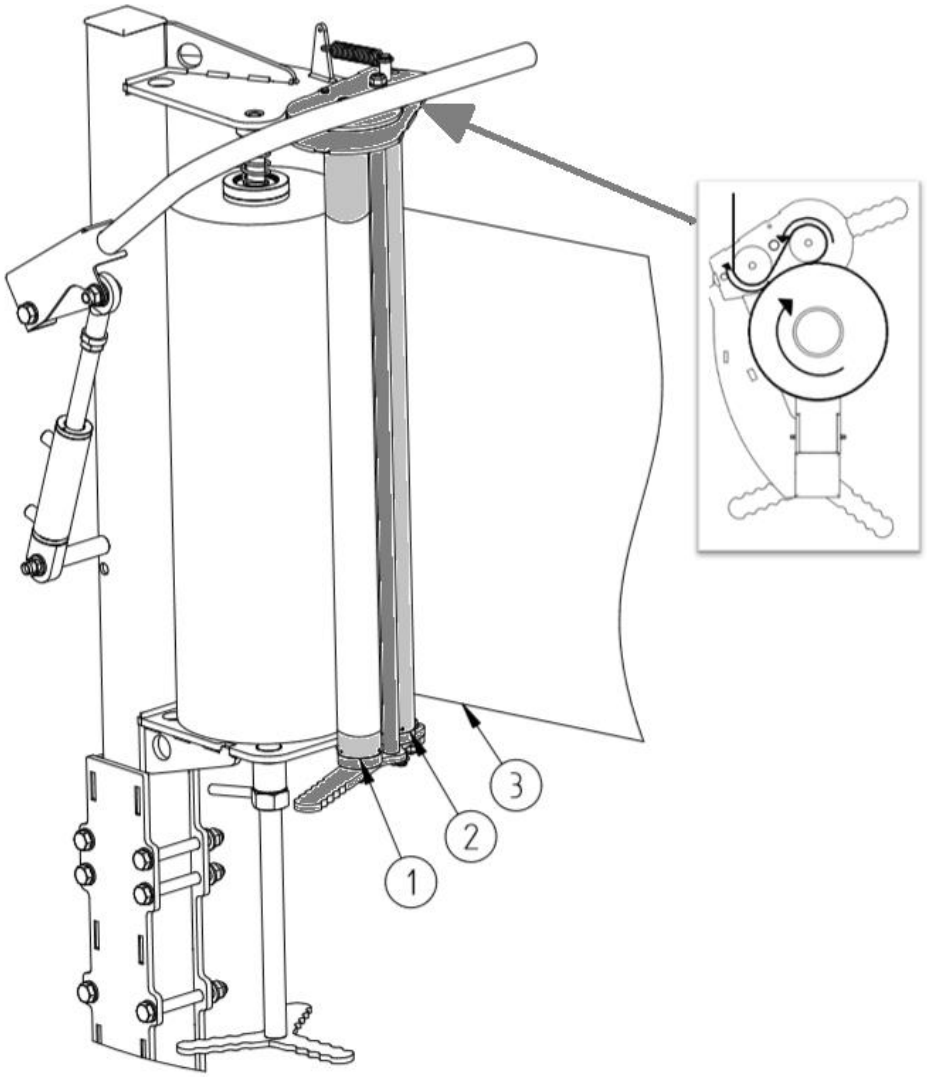


Figure 32 Film threading direction

(1) roller I, (2) roller II, (3) film

Threading the film must follow the direction shown in Figure 31. When mounted correctly, the film (3) is unwound to be wrapped around roller I (1) first, and then routed behind roller II (2) and tied on the first bale to be wrapped.

For installing the 750 mm wide film you need to adjust the film dispenser to this type of rolls. The use of the wider film requires changing the gear ratio of the turntable. For details, refer to Section 7.5.

7. Technical servicing

7.1 Adjusting the chain tension of the rotary frame

You can access the rotary frame chain after lifting and securing the actuator of the turntable slide base.

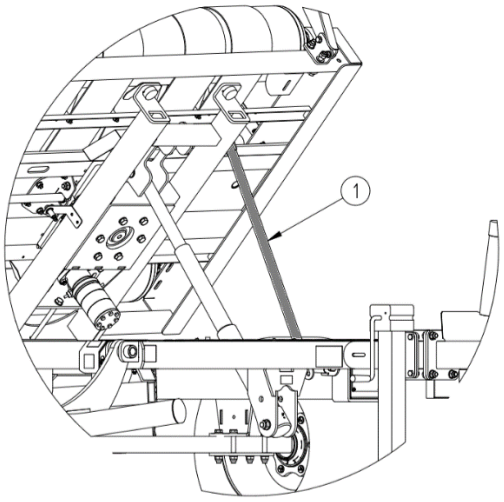


Figure 33 Locking the rotary frame

Caution!

All maintenance works must be carried out with the rotary frame locked with a rod. Turn off the engine of the vehicle and secure it against rolling down.

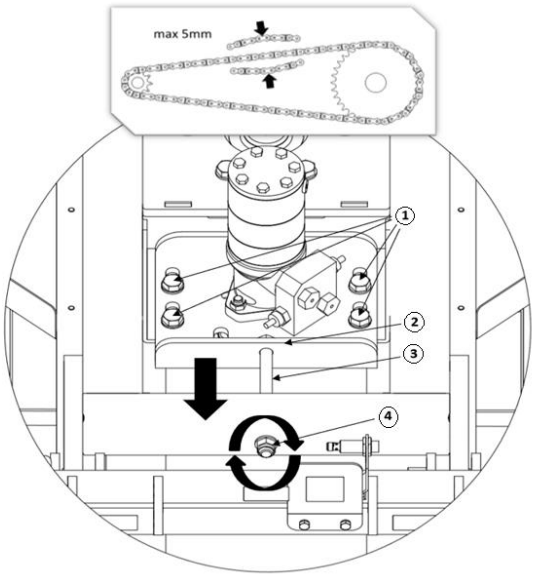


Figure 34 Adjusting the chain tension of the rotary frame

(1) bolts, (2) motor plate, (3) tensioner screw, (4) tensioner nut

Follow the procedure for tensioning the chain of the rotary frame:

1. Loosen the bolt nuts (1) of the motor plate (2) size 24 wrench – Figure 34
2. Use the screw (3) and nut (4) to adjust the chain tension

   - The chain tension is increased by turning the tensioning nut clockwise using a size 24 wrench.
3. Chain tension check
   - Measure the deflection in half the length, with the correct value in the range of 3 to 5 mm.
4. Fix the motor plate (2).
5. Fold the protection rod and lower the table
6. Carry out the test start of table rotation

Note that the table movement should be smooth, without jamming or unnatural gear noise.

The first adjustment should be made after 20 cycles, and then check every 200 cycles. The chain tension must always be checked if the gear is not working properly or noisy.

If chain tension adjustment does not bring the desired effect, it may indicate wear (excessive stretch) of the chain, which is a normal sign in this type of drives. In this case, replace the chain with a new one.

7.2 Adjust the tension of the table roller chain

You can access the table roller chain by removing the cover on the outside of the rotary frame.

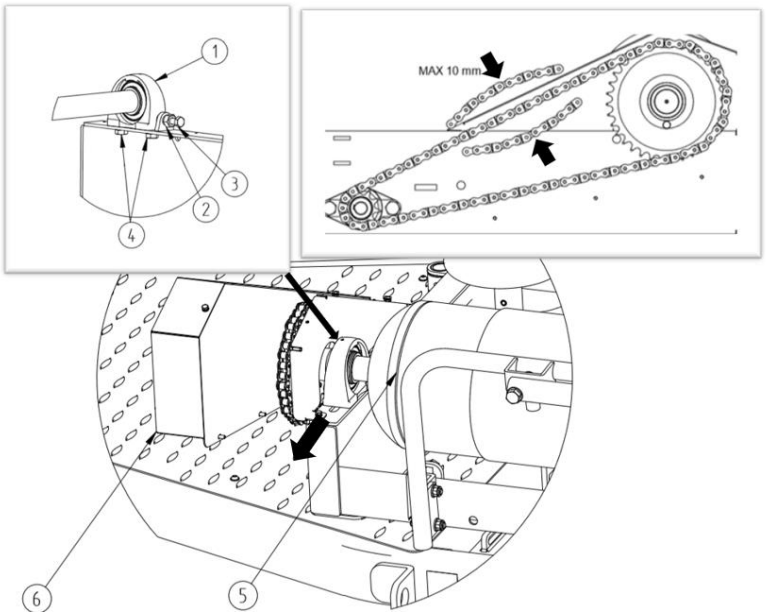


Figure 35 Adjusting the chain tension of the table roller gears

Follow the procedure for tensioning the chain of the table rollers:

1. Remove the chain guard using a size 3 Allen wrench.
2. Check chain tension in half the length - If deflection is more than 10 mm, make adjustments.
3. Loosen the bearing fixing nuts on the driving table roller (size 21 wrench).
4. Loosen the jam nuts on the adjustment screw (size 19 wrench).
5. Screw in the screw to move the bearings away until the required chain tension is reached while ensuring a uniform setting is achieved.
6. Once the correct tension is achieved on the chain, tighten the bearings starting from the one on the sprocket side.
7. Tighten the jam nuts.
8. Reinstall the chain guard.
9. Check rubber belt tensions and make adjustments if necessary.

Caution!

Check the tension of the table rollers' chain after 20 cycles, and then every 200 cycles, as well as when replacing bearings or sprocket of the driving table roller.

7.3 Adjusting the bale tipper

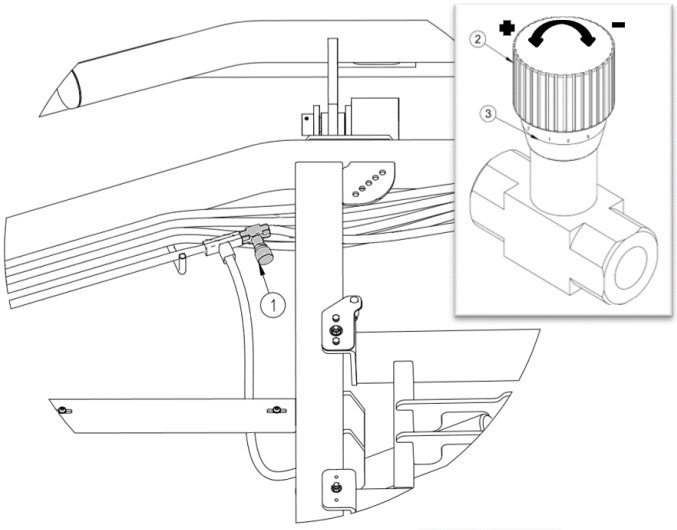


Figure 36 Adjusting the bale tipper dropping speed
(1) flow controller, (2) controller knob, (3) scale

Turn the controller knob to increase or decrease the speed of the cradle drop of the tipper. The bale tipper is lifted at a constant speed and the speed does not depend on the controller setting.

- Turn to the right (-) to reduce the speed of the drop.
- Turn to the left (+) to increase the speed of the drop.

7.4 Adjusting the tension of the belts

The belts (1) are subject to stretch in the course of the bale wrapper's use. When their lower position is visibly evident, you must adjust the tension.

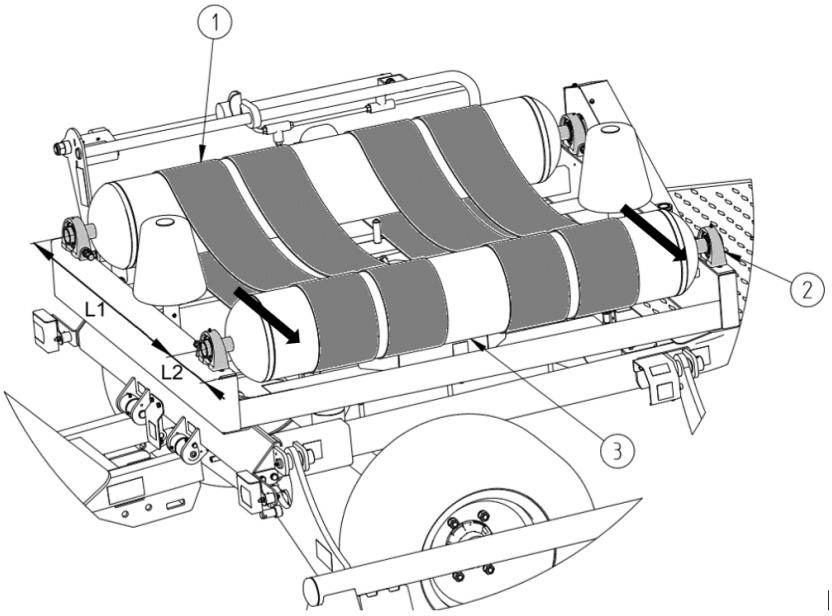


Figure 37 Adjusting the tension of the belts

(1) belts, (2) bearings, (3) idle table roller, (L1) distance between table rollers, (L2) distance between the roller centreline and frame edge

Follow the procedure for tensioning the belts:

1. Loosen the bearing nuts (2) which lock the idle table roller (size 21 wrench).
2. Move the bearings of the idle table roller outwards, as per the arrows (size 19 wrench).
3. Tighten the bearings which hold the roller in place.
4. Check the L1 distance on both sides of the table rollers.
5. Check the L2 distance on both sides of the table rollers.
    - If the distances L1 and L2 on both sides are equal, this means that the table rollers are positioned correctly, i.e. parallel to each other, which extends the life of the belts.
    - If the distances L1 and L2 are different, the bearing position must be readjusted.
6. The adjustment of the driving table roller must be carried out in the same way, considering the chain tension (see Section 7.2).

CAUTION

If the stretch of the belts is greater than the adjustment range, the belts must be replaced.

All repairs, adjustments and maintenance works must be carried out when the machine is stationary and secured.

7.5 Changing film width

The bale wrapper can be adjusted to suit the widths of 500 and 750 mm. This requires changing the ratio on the chain drive of the table roller assembly (Figure 38) and adjusting the lower roll holder of the movable bracket in the film dispenser (Figure 39).

7.5.1 Changing the chain transmission ratio of the driving table roller

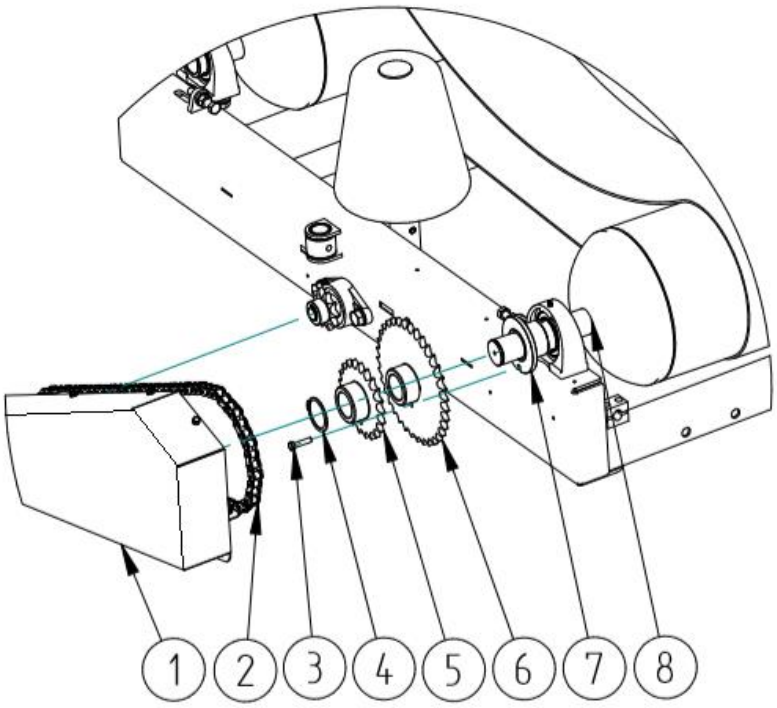


Figure 38 Dismantling the table roller's sprocket
(1) guard, (2) chain, (3) lock screw, (4) circlip, (5) Z-21 sprocket, (6) Z-35 sprocket, (7) hub, (8) driving table roller

Follow the procedure for changing the chain transmission ratio of the table roller:

1. Stop the tractor and engage the parking brake to prevent movement.
2. Remove the chain guard (1) – size 3 Allen wrench.
3. Find out which of the settings is currently mounted on the bale wrapper.
    - The bale wrapper is designed to suit the 750 mm film as standard;
    - The choice of sprockets according to the film width is shown in Table 7;
    - If the sprocket needs to be changed, proceed with the following;
    - If the sprocket does not need to be changed, check the chain tension and fit the guard.
4. Loosen the bearing fixing nuts (size 21 wrench) and the bearing adjustment screw (size 19 wrench) in the driving table roller (8).
5. Remove the drive chain (2).
    - Find the connecting link;
    - Unfasten the lock of the connecting link;
    - Pull out the pin connecting the link plates.
6. Remove the circlip (4).
7. Remove the retaining screw (3) using a size 13 wrench.
8. Remove the sprocket to be replaced.
    - Use an appropriate size bearing puller to dismount the sprocket.
9. Fit the sprocket (5) or (6) depending on the width of the film, as required in Table 7
10. Screw in the lock screw (3) connecting the wheel to the hub (7) with a size 13 wrench.

11. Attach the circlip (4).
12. Mount the chain according to the number of links given in Table 7.
    - The length of the chain is adjusted by adding or removing additional links.
13. Adjust the chain tension (Section 7.2) and remember to tighten the bearing and counter screw.
14. Fit the chain guard (size 3 Allen key).

Film width [mm]	Number of chain links [-]	Number of sprocket teeth [-]
500	43	35
750	39 - 40	21

Table 7 Choosing a sprocket and chain length according to film width

7.5.2 Changing the lower holder position of the film dispenser post

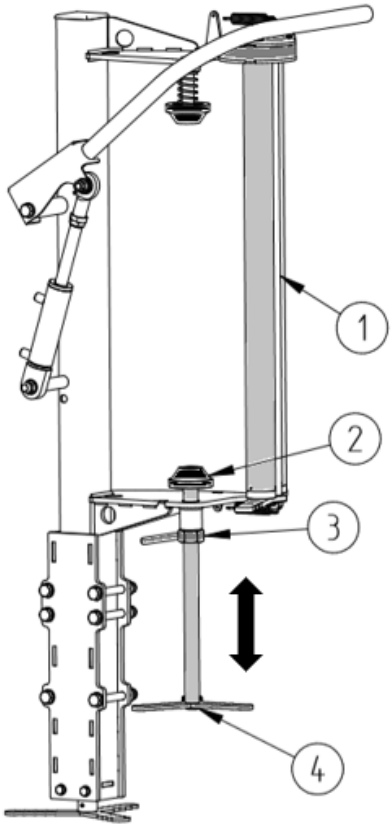


Figure 39 Adjusting the film height settings
(1) film dispenser, (2) bottom holder, (3) jam nut, (4) pressure screw

Changes in the holder position are made when a new roll of film is installed or when it is necessary to adjust the film tension. To do this, push back the film dispenser (1), loosen the jam nut (3), then adjust the holder position (2) with the screw (4). After checking the correctness of the tension of the film, secure the position of the screw (4) against unscrewing with the jam nut (3).

7.6 Maintaining the axle

Have all replacement, repair or adjustment of the running axle parts carried out by professional workshops having all appropriate technical tools and qualifications to perform this type of works.

The User's responsibility is to:

- Monitor air pressure,
- Assess the technical condition of the wheels and tyres,
- Ensure the wheels are tightened properly,
- Check the running axle bearings for play and adjust if necessary.

Works to be assigned to specialist workshops are:

- Replace grease in the bearings of the running axle,
- Replace the bearings, hub seals.

7.6.1 Checking the running axle bearings for play

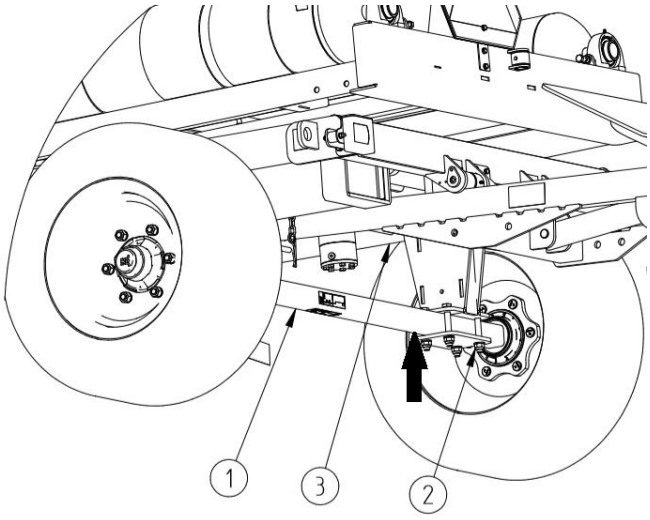


Figure 40 Jacking points

(1) Running axle, (2) bolt, (3) bottom frame

Preparatory activities:

- Connect the bale wrapper to the tractor, engage the tractor’s parking brake to prevent any movement.
- Drive the tractor and the bale wrapper to solid and even ground.
  - Set the steering of the tractor for a straight ride.
- Place wedges under the bale wrapper's wheel. Make sure that the machine does not roll during the check.
- Lift the wheel on the opposite side of the chocks.

- The jack must be placed next to the bolts (2) which fix the axle (1) to the bottom frame (3), see Figure 40. Recommended jacking points are indicated by an arrow. The jack has to match the bale wrapper's kerb weight.

Check the running axle bearings for play

- By rotating the wheel slowly in two directions, check if the movement is smooth and the wheel rotates without excessive resistance or jamming.
- Move the wheel to rotate very quickly to check for unnatural sounds from the bearing.
- Grip the wheel's upper and lower end to try to feel if there is play.
  - You can use a lever placed under the wheel, with its other end resting on the ground.
- Repeat the procedure for the other wheel.
  A damaged or missing hub cap will let dirt and moisture penetrate the hub, resulting in much faster wear of bearings and hub seals. Bearing service life depends on the conditions the bale wrapper is operated in, load, vehicle speed and lubrication conditions.

If play is perceptible, the bearings must be adjusted. Unnatural sounds from the bearing can be signs of excessive wear, contamination or damage. In such case, the bearing, together with the sealing rings, must be replaced with new ones or cleaned and lubricated again. Check the condition of the hub cap and replace it if necessary. The bearing play check can only be carried out when the bale wrapper is connected to the tractor. Ensure there is no load on the machine.

Checking the running axle bearings for play:

- after riding the first 1,000 km,
- before any intensive use of the bale wrapper,
- every 6 months of use or after riding 25,000 km.

Before starting work, read the instructions manual of the jack and follow the manufacturer's guidelines. The jack must stand stable on the ground and against the running axle. Make sure that the bale wrapper does not roll during the check for play in the running axle bearings.

7.6.2 Removing play in the running axle bearings

Preparatory activities

- Follow the procedure in Section 7.5.1 to prepare the tractor and the bale wrapper for adjustment

Removing play in the running axle bearings

- Remove the hub cap (1), see Figure 41
- Remove the locking pin (3) which secures the castle nut (2).
- Tighten the castle nut to remove play.
  - The wheel should turn with slight resistance.
- Loosen the nut by at least 1/3 turn to line up the nearest groove of the nut with the hole in the running axle stud. The wheel should turn without any excessive resistance
  - The nut must not be over-tightened. Too strong tightening is not recommended due to the worse bearing operation.
- Secure the nut with a spring locking pin and fasten the hub cap.

- Pat the hub gently with a rubber or wooden hammer.

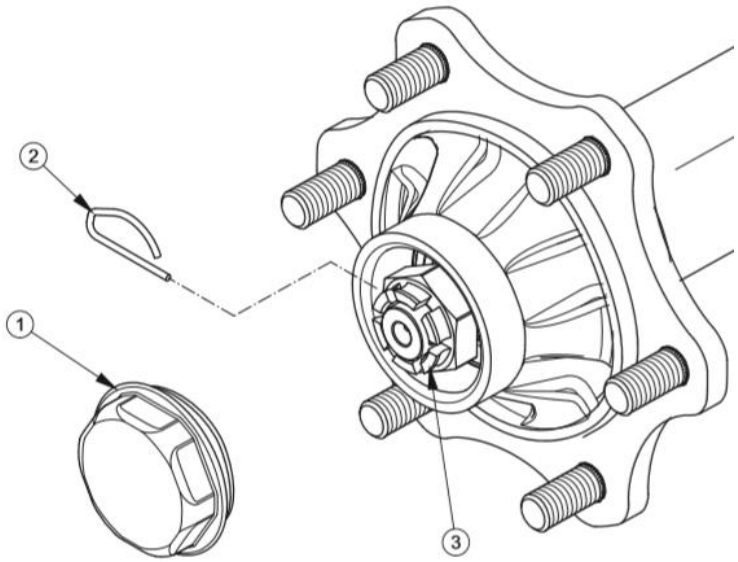


Figure 41 Adjusting the running axle bearings

(1) hub cap, (2) castle nut, (3) cotter pin

The wheel should rotate smoothly, with no jamming or resistance. The bearing play adjustment can only be carried out when the bale wrapper is connected to the tractor and is not loaded.

If the wheel is dismounted, it is easier to check and adjust the bearing play.

7.6.3 Mounting and dismantling wheel, checking nuts for tightness

Dismantling the wheel

- Put wedges under the wheel that will not be dismantled.
- Make sure that the bale wrapper is properly secured and will not roll when the wheel is dismantled.
- Loosen the wheel nuts according to the order shown in Figure 42.
- Place the jack under and lift the bale wrapper.
- Remove the wheel.

Mounting the wheel

- Clean the studs of the running axle and the nuts from dirt.
  - Do not lubricate the nut and stud threads.
- Inspect the technical condition of the studs and nuts and replace them if necessary.
- Put the wheel on the hub, tighten the nuts so that the rim fits tightly against the hub.
- Lower the bale wrapper, tighten the nuts according to the recommended torque and the order shown in Figure 42.

Tightening the nuts

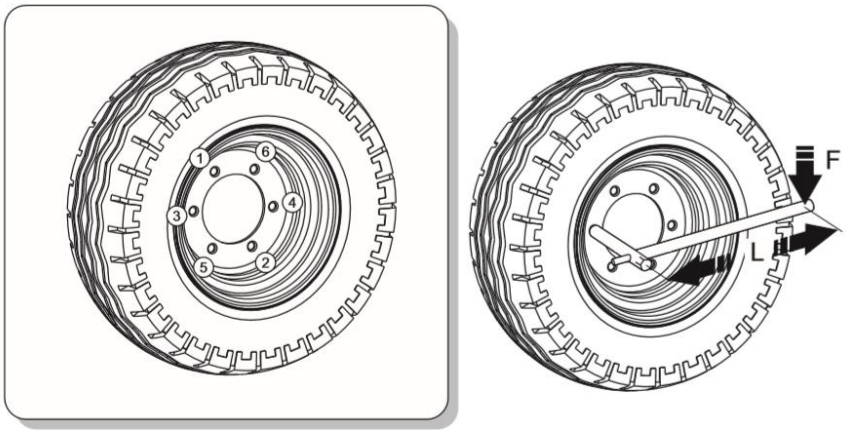


Figure 42 Nut tightening order

(1) - (6) nut tightening order, (L) length of wrench, (F) weight of user

The M18x1.5 wheel nuts should be tightened with a torque of 270 Nm.

Use a torque wrench to gradually tighten the nuts, alternating them diagonally in several steps, until the required torque is reached. In the absence of a torque wrench, a normal spanner can be used. The wrench arm (L), Figure (42), should be selected to suit the weight of the person (F) who tightens the nuts. Please note that this tightening method is not as precise as when using a torque wrench.

Check the tightening of the wheels of the running axle:

- after the first time you use the bale wrapper,
- after the first run with a load,
- after riding the first 1,000 km,
- every 6 months of use or every 25,000 km.

In the case of intensive use, the check should be carried out at least every 100 km. Repeat the whole procedure if the wheel was disassembled.

The nuts of the running wheels must not be tightened with impact wrenches, as there is a danger that the permissible tightening torque may be exceeded, resulting in the break of fastener's thread or the hub stud. The highest tightening accuracy is achieved with a torque wrench. Before you start tightening, make sure that the correct tightening torque is set.

Wrench arm selection.

WHEEL TIGHTENING TORQUE	BODY WEIGHT	ARM LENGTH
[Nm]	[kg]	[m]
270	90	0.30
	77	0.35
	67	0.40
	60	0.45

Table 8 Wheel tightening torque

7.6.4 Checking air pressure, assessing the technical condition of tyres and steel rims.

A tyre pressure check must be carried out each time a wheel is changed and at least once a month. In case of intensive use, it is recommended to check the air pressure more often. The bale wrapper must be unloaded at such time. The check should be carried out before driving, when the tyres are not warmed up, or after a prolonged standstill.

The value of the tyre pressure is indicated on an information sign, placed on the rim or frame, above the bale wrapper wheel and is 4.7 bar.

Damaged tyres or rims can cause a serious accident.

When checking the pressure, pay attention to the condition of the rims and tyres too. Look closely at the tyre side surfaces, check the tread condition. In case of mechanical damage, consult your nearest tyre service centre and check if the defect qualifies for a replacement. Rims must be checked for deformation, material cracks, weld cracks, corrosion, especially in the weld area and the contact with tyres. The technical condition and proper maintenance of the wheels significantly extend the service life of these components and ensures an appropriate level of safety for the users of the bale wrapper.

Pressure control and visual inspection of steel rims:

- every 1 month of operation,
- every week for intensive use,
- if required.

8. Control system

The dedicated control for the bale wrapper consists of:

- an electrical box (mounted on the bale wrapper);
- wire set;
- sensors;
- control unit.

Connection of the control unit requires the H24 communication cable to be plugged into the box located on the bale wrapper, as per the procedure in Figure 15 and Section 5.3.5. The next step is to connect the power cable of the control unit to the tractor power supply.

CAUTION!

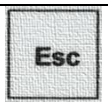
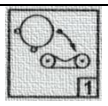
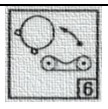
Before connecting electrical cables, make sure that they are not damaged and secure them properly, if necessary.

8.1 Control unit

Figure 43 Control unit

(1) emergency push button, (2) fuse 10 A, (3) display, (4) display buttons, (5) control buttons, (6) power cable, (7) control cable

8.1.1 Description of functions of the control unit

NO.	KEY	DESCRIPTION
1		Confirms selection
2		Cancels selection and exits the selected screen
3		Moves cursor up
4		Moves cursor down Inserts a dot
5		Moves cursor left
6		Moves cursor right
7		Lifts the bale grab Enters “1”
8		Lowers the bale grab Enters “6”

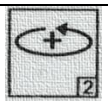
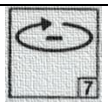
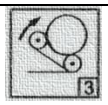
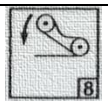
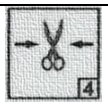
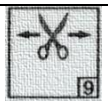
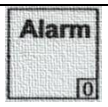
9		Starts wrapping Enters “2”
10		Moves the frame in the opposite direction Enters “7”
11		Tilts the table – bale unloading Enters “3”
12		Lowers the table Enters “8”
13		Cuts and holds the film Enters “4”
14		Releases the film Enters “9”
15		Goes to the menu Enters “5”
16		Lists recent faults Enters “0”
17		Display keys

Table 9 Description of functions of the control unit

8.2 Operating modes

The bale wrapper can be controlled using one of three modes:

- **AUTO mode**
  Select the "AUTO" mode to perform all the movements of individual sections in one full cycle after pressing the start.
- **SEMI-AUTO mode**
  Select the "SEMI-AUTO" mode to operate the machine in two ways. In the first one, you click on the selected control signal for the operation to take place automatically and once finished, wait until you input another signal to be executed. The individual sections are executed separately after they are started. In the other one, you hold down the button for the operation to be carried out until the button is released. The operation is terminated at any time after removing the finger from the button.
- **MANUAL Mode**
  In the "MANUAL" mode, all operations are confirmed by the operator who holds down a control button for the section required. Removing your finger from the button terminates the operation of the section.

8.3 Control panel operation

The control unit is switched on automatically as soon as the power is connected. The screen will display the start sequence, the name of the company with the address, and when finished, a message prompting to confirm that the bale grab lock has been removed, see Section 6.4 Figure 21.

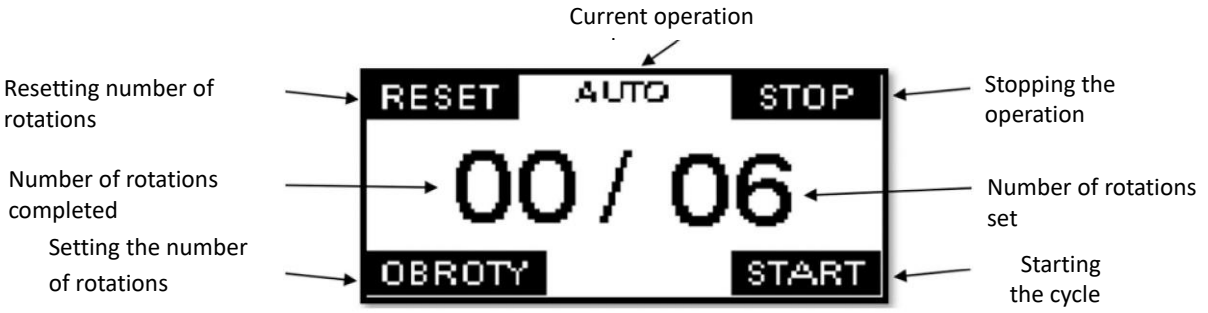
Caution!

It is forbidden to operate the grab actuator with the grab lock on, as it can cause damage to the machine.

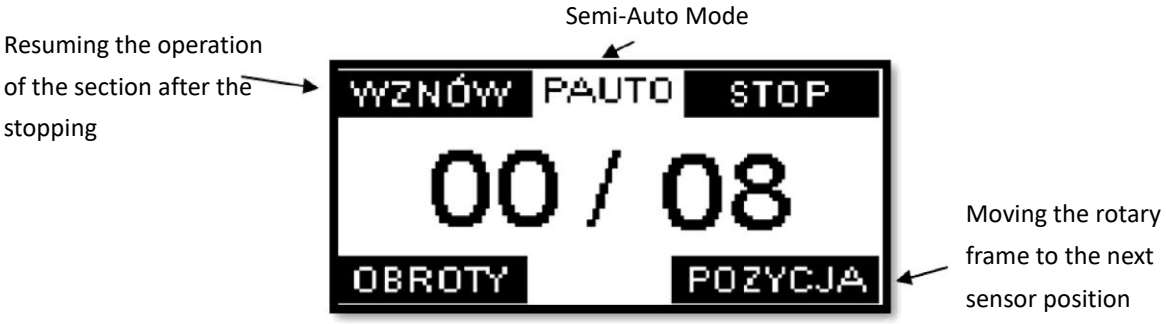
Once the grab lock is removed and confirmed, the main screen with basic information is displayed.

Depending on the selected operating mode, the main screen can vary slightly:

- Automatic mode screen



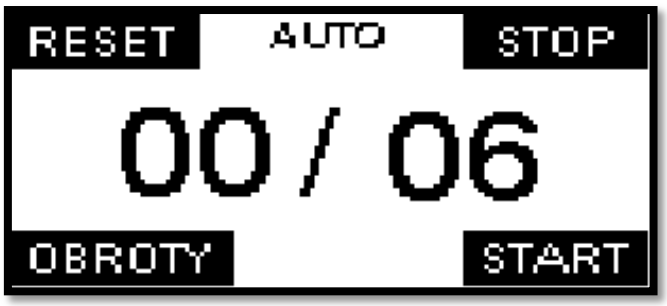
- Semi-Auto mode screen



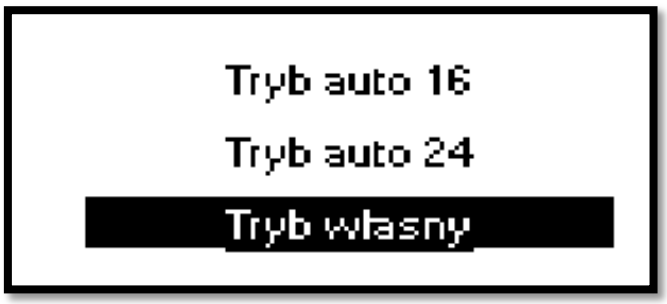
- Manual mode screen

8.3.1 AUTO mode

Select the “AUTO” mode to perform all the movements of individual sections in one full cycle after pressing .

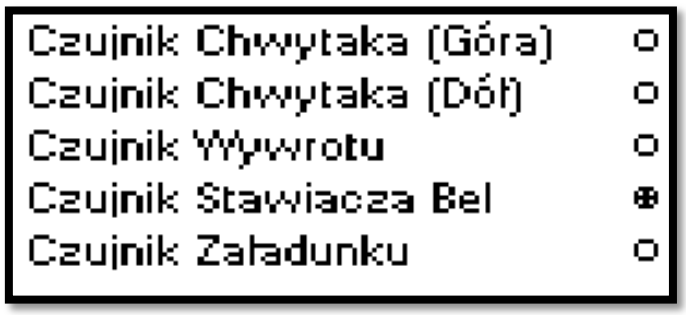


After selecting the display key “ROTATIONS” , you can change the number of bale wraps to 16, 24 or choose custom number of turns. To execute a change, set the selected quantity using the arrows and confirm with .



By selecting a custom mode you will move to another screen where after pressing Enter you can use the arrows to indicate the number to be changed, and the arrows to change its value. Confirm the resulting number using Enter and press the screen key "CONFIRM" to change the number of turns setting.

The execution of the individual operations depends on protections, the function of which is performed by the sensors. If executing an action is not possible, it will be indicated by a message informing about the positions of the sensors.



If the display shows that a section is not in a position declared for its sensor, the controller will prevent the operation of the section until it is correctly set.

8.3.2 SEMI-AUTO mode

Select the "SEMI-AUTO" mode to operate the machine in two ways. First one involves touching a chosen control signal. This activates an automatic operation and once completed, pauses to wait for the next signal to be executed. The individual sections are executed separately after they are started. The other

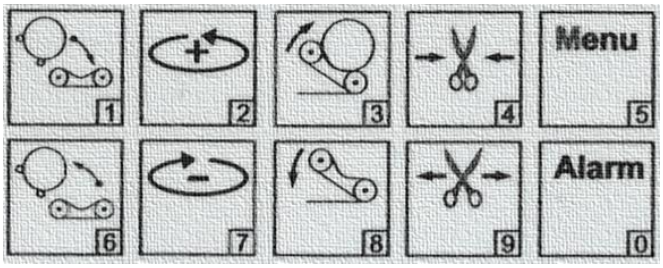
way involves holding down the button for the operation to be carried out until the button is released. The operation is terminated at any time after removing the finger from the button.

In order to facilitate the work for the operator, the screen comes with a positioning key ”POSITION”. Select it to rotate the rotary frame to move it to the next sensor in an anticlockwise direction. Pausing or stopping the operation will pause the counting of wraps and using the key will resume it.

8.3.3 MANUAL Mode

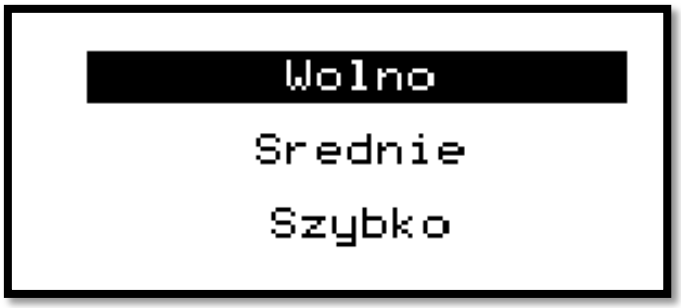
In the “MANUAL” mode, all operations are confirmed by the operator who holds down a control button for the section required. Removing your finger from the button terminates the operation of the section.

Keys for controlling sections:



Manual control screen:

In Manual mode, you can set the speed of the machine from the screen. Change the speed by selecting the screen key PRĘDKOŚĆ , and then use the keys to move the cursor and select the desired speed; to confirm, touch Enter.



The selection of the setpoint speed applies to all sections altogether.

8.4 Menu

By selecting on the panel Menu, you access basic settings to be changed and more information. It is available only after the system has been stopped.

Menu screen:

To enable the selection of options in this mode, press the key , and then use the arrows to select the items, and press to confirm.

8.4.1 Changing the operating mode

To change the operating mode Menu, move to the menu by pressing and highlight the cursor Enter by pressing ; use arrows to select the “Work mode” item and touch to confirm Enter.

8.4.2 Changing the bale weight

To change the bale weight, move to the menu by pressing Menu and highlight the cursor by pressing Enter; use arrows to select the “Bale” item and touch to confirm Enter. You can choose weight in the following ranges:

- up to 300 kg;
- from 300 kg to 600 kg;
- over 600 kg.

It is possible to set the bale weight only when the adaptation feature is disabled.

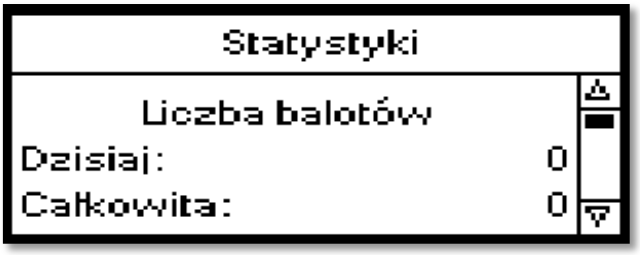
When enabled, the adaptation feature automatically adjusts the parameters to the operator's selected operating speed, regardless of the bale weight.

8.4.3 Statistics

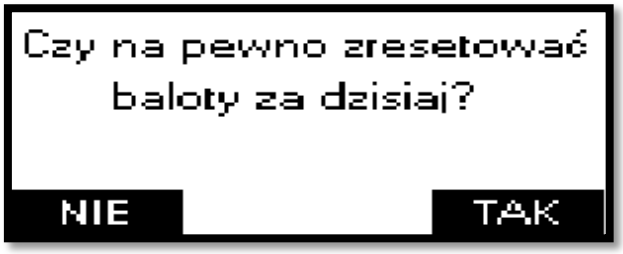
To view or restart the Statistics, move to the menu by pressing Enter and highlight the cursor by pressing Menu; use arrows to select the “Statistics” item and touch to confirm Enter.. The

information in statistics may be restarted to obtain a new measurement. The tab contains information about:

- the number of bales wrapped on a given day and all the bales the machine has ever wrapped.

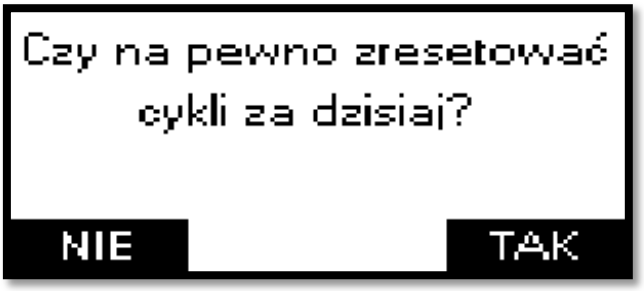


After selecting the restart, only the day's count of bales can be reset. Confirm the restart with the key on the screen.



- The number of cycles completed on a given day and all the cycles the machine has ever completed.

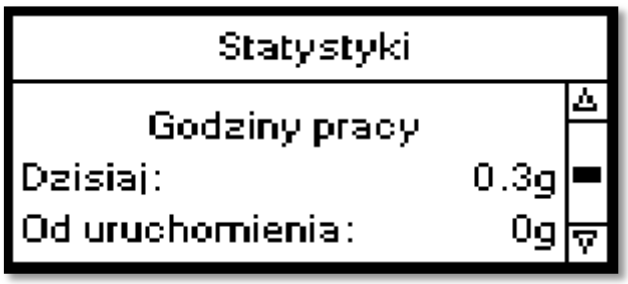
After selecting the restart, only the day's count of cycles can be reset. Confirm the restart with the key on the screen.



- Cycle times

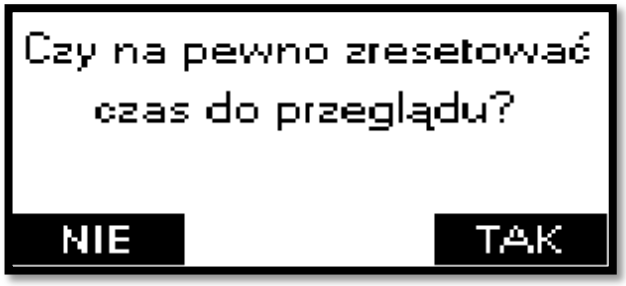
The average time from the last 5 complete cycles is given.

- Runtime



- Time left before inspection

An approximate time before the next machine inspection is also given.



Carrying out the inspection will require the timer to be restarted for the next inspection.

Confirming the inspection requires a service password.

8.5 Changing speed in automatic and semi-automatic modes

You can change the speed over 3 basic settings: slow, medium, fast, or choose custom settings.

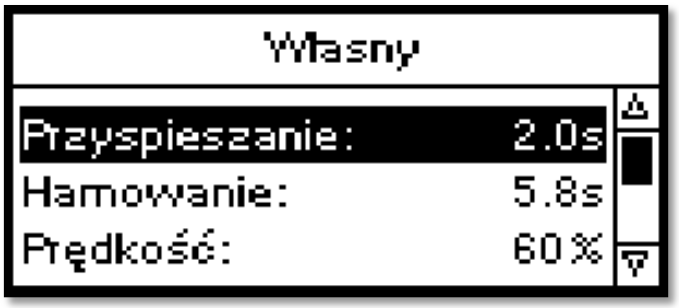
Changing the speed in AUTO and Auto/Manual modes to custom settings requires a password.

Entering a password and confirming involves the risk of exceeding the safe operating speed of the machine, so it is forbidden for an unauthorised person to change parameters.

Caution!

The manufacturer's approval is required for changing the setpoints on your own.

Custom mode setpoints.



TALEX Spółka z ograniczoną odpowiedzialnością
ul. Dworcowa 9c, 77-141 Borzytuchom
tel. (59) 821 13 40
e-mail.: biuro@talex-sj.pl
www.talex-sj.pl

8.6 Contact details

To view the contact details, move to the menu by pressing Menu and highlight the cursor by pressing Enter; use arrows to select the "Kontakt" item and touch to confirm Enter. The screen will then display the name of the machine manufacturer, the country of origin and the contact telephone.

8.7 Date and time settings

To set the date and time, move to the menu by pressing Menu and highlight the cursor by pressing Enter; use arrows to select the "Godzina i data" item and touch to confirm Enter. The highlighted cursor will hover over the items, and if you need to adjust them, touch Enter, use arrows to select a digit to be changed and indicate its value using arrows or selecting the numbers from the control keys. Press to confirm the resulting values, and use to confirm the final setting.

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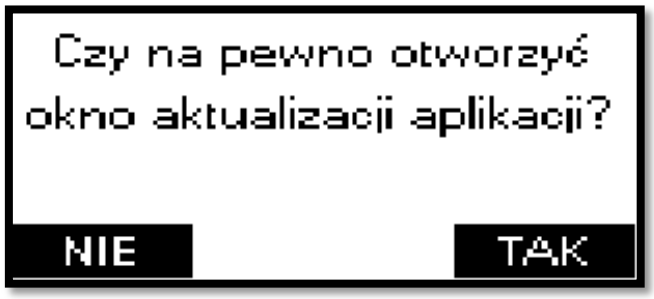
ul. Dworcowa 9c, 77-141 Borzytuchom
tel. (59) 821 13 40
e-mail.: biuro@talex-sj.pl
www.talex-sj.pl

8.8 Choosing the language

To choose the language, move to the menu by pressing Menu and highlight the cursor by pressing Enter; use arrows to select the "Język" item and touch to confirm Enter. Move the cursor up and down to select the language and confirm with .

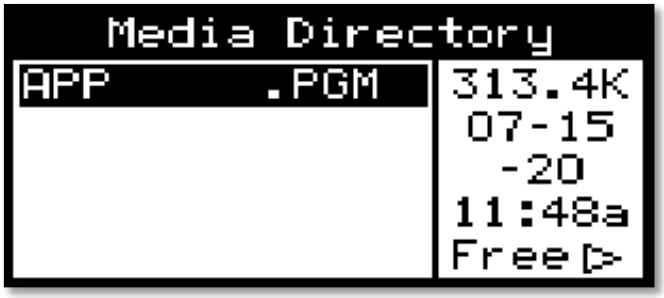
8.9 Application update

To make an update, move to the menu by pressing Menu and highlight the cursor by pressing Enter ; use arrows to select the "Aktualizacja" item and touch Enter to confirm. The screen will prompt you to use the screen keys to confirm or reject that you want to update the application.



If you confirm but the card is missing or a reading error occurred, the following message will be displayed

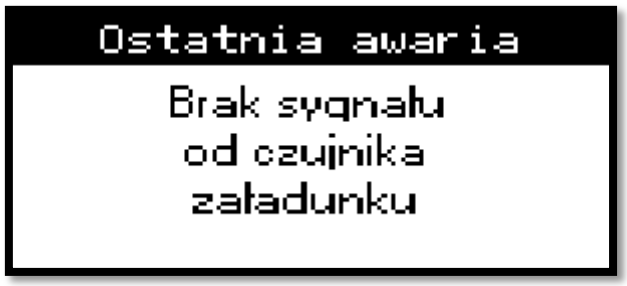
If the process is correct, the name of the file to be confirmed with will be displayed.



The system will ask again if you want it to upgrade to a new version: to confirm, press Enter, to cancel, press Esc.

8.10 Last fault

There is also a key Alarm on the panel that informs the operator about the status of the machine's safety sensors.



Possible alarm messages displayed on the screen:

- No alarm
- Grab lifting time exceeded
- No info on whether the grab is lowered
- No item to unload found
- No signal from the load sensor
- No info on the rising action of the table tilt
- No info on the lowering action of the table tilt
- Number of rotations exceeded
- Grab lowering time exceeded
- No info on whether bale tipper is lowered

If the messages are displayed, set the items to the required position. If the item is correct but the error is still displayed, check the sensor for offset range or damage.

9. Maintenance

9.1 Maintenance after work

After the work is finished, the machine should be thoroughly cleaned and washed with a running water stream. In the case of high-pressure devices, exercise caution and do not direct the stream directly towards any types of labels on the machine and elements such as bearings, shaft joints, etc. It is recommended that cleaning and washing be carried out on the wash equipped with a water treatment system or a settlement tank for waste neutralisation.

Having performed the cleaning and drying of the machine, check the general technical condition of all sub-assemblies and, if needed, remove any found damage or replace a worn element with a new one.

In case of varnish coating damage, remove any mechanical residues of an old painting, degrease, and then apply a primer coat. When the primer coat is dry, apply the paint coat. Replace damaged and worn out parts with new ones. Check all the screwed joints, tighten the loose screws and nuts according to Table . The manufacturer of the machine, Talex, provides all spare parts.

Caution!

Nuts with polyamide insert – self-locking (jam) are disposable and cannot be reused after disassembly. Replace them with new ones.

Caution!

For servicing and maintenance operations, general-purpose hand tools such as combination spanners, socket wrench, Allen keys and other tools should be used in accordance with their operating instructions, taking into account their operability and safety requirements

Durability	6.8	8.8	10.9	12.9
Metric thread	Tightening torque [Nm]			
M5	4.5	5.9	8.7	10
M6	7.6	10	15	18
M8	18	25	36	43
M10	37	49	72	84
M12	64	85	125	145
M14	100	135	200	235
M16	160	210	310	365
M18	220	300	430	500
M20	310	425	610	710
M22	425	580	820	960
M24	535	730	1050	1220

Table 10 Tightening torque values for bolts and nuts.

Lubricate the bale wrapper according to the Instructions Manual – 9.2 Machine lubrication .
All information signs affixed on the machine must be kept clean.

9.2 Machine lubrication

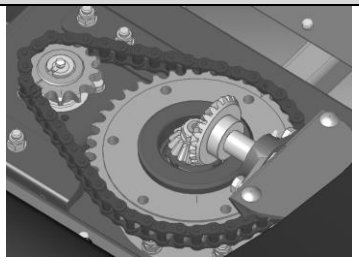
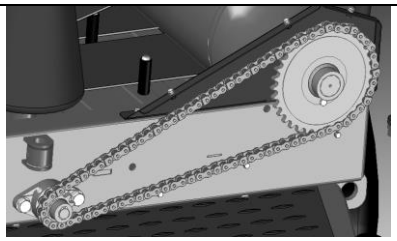
Appropriate periodical maintenance works considerably decrease the wear and tear of mating components and additionally protect against corrosion.

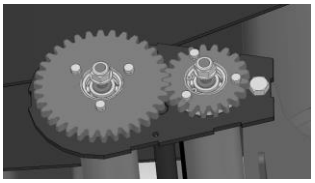
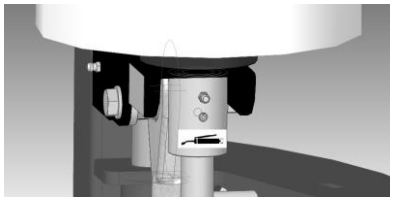
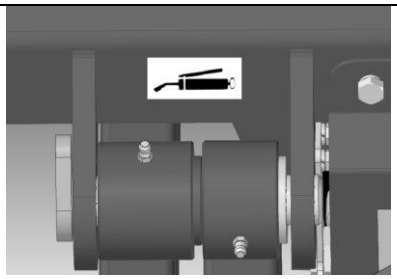
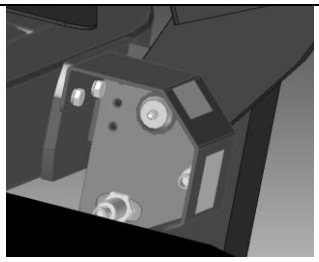
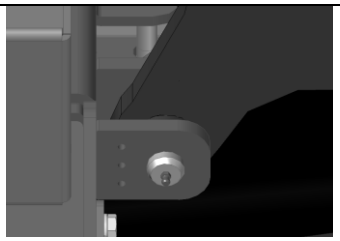
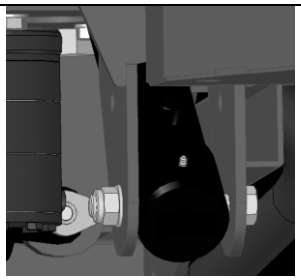
You should lubricate all the lubrication points enumerated below. The lubrication should be performed with use of a greaser. Before commencement of lubrication works, the point to be lubricated should be cleaned from any dirt and residues of previous grease layers and the grease nipple should be checked for damage. Replace the grease nipple, if damaged. After the lubrication has been performed, excessive grease should be removed in order to limit dirt adherence.

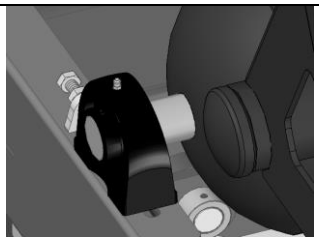
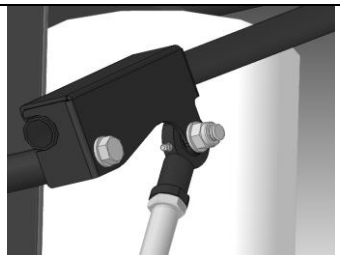
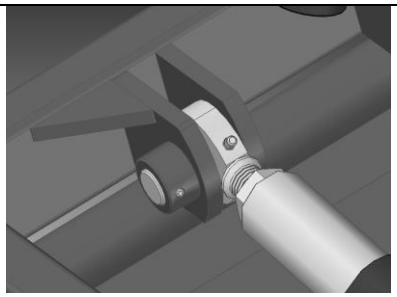
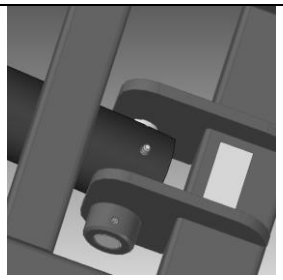
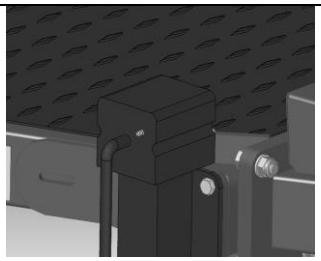
All maintenance works should be done with the switched off engine of the vehicle, released pressure and stopped rotations, and with both, the vehicle and machine. properly secured.

Avoid contact with oil!

Use the personal protective equipment: protective clothing, safety footwear, gloves and goggles.

No.	Lubrication point	Description	Lubrication interval	Lubricant
1		Gears in the turntable slide base	Pre-seasonally, every 30 hours of work or 1x a year	Machine grease for chain drives
2		Table roller drive gear	Pre-seasonally, every 30 hours of work or 1x a year	Machine grease for chain drives

3		Film dispenser gears	Pre-seasonally, every 30 hours of work or 1x a year	Machine grease
4		Lower spindle	10 hrs or at least 1x a year	Machine grease
5		Tipper bushings	Pre-seasonally, every 10 hours of work or 1x a year	Machine grease for heavy-duty components
6		Bale grab pin	Pre-seasonally, every 10 hours of work or 1x a year	Machine grease for heavy-duty components
7		Bale grab pin	Pre-seasonally, every 10 hours of work or 1x a year	Machine grease for heavy-duty components
8		Tilt actuator	Pre-seasonally, every 10 hours of work or 1x a year	Machine grease

9		Table roller bearings	Pre-seasonally, every 10 hours of work or 1x a year	Machine grease
10		Film scraper actuator fasteners	Pre-seasonally, every 10 hours of work or 1x a year	Machine grease
11		Tilt actuator	Pre-seasonally, every 10 hours of work or 1x a year	Machine grease
12		Bale tipper actuator	Pre-seasonally, every 10 hours of work or 1x a year	Machine grease
13		Bale tipper actuator	Pre-seasonally, every 10 hours of work or 1x a year	Machine grease
14		Support foot	Pre-seasonally, every 30 hours of work or 1x a year	Machine grease

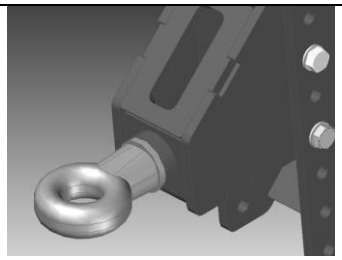
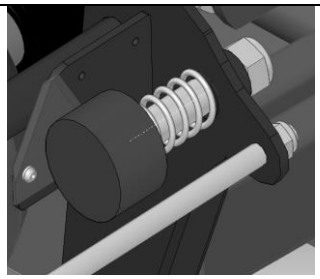
15		Hitch bolt	Pre-seasonally, every 10 hours of work or 1x a year	Machine grease
16		Bumper pin	Pre-seasonally, every 10 hours of work or 1x a year	Silicone spray lubricant
17		Dispenser rollers	Pre-seasonally, every 10 hours of work or 1x a year	Silicone spray lubricant

Table 11 Lubrication schedule

* Machine grease for chain drives:

- FUCHS LAGERMEISTER TS grease

* Machine grease:

- FUCHS RENOLIT MOLITEN 2 grease

9.3 Storage

All the tasks listed in Section 9.1 9.1 (Maintenance after work) are to be carried out during storage. It is recommended that the machine be kept in a closed and roofed room in order to limit the environmental factors causing corrosion and ageing of any materials. Additionally, during long downtimes (e.g. winter) it is recommended to:

- Lubricate any moving joints with fresh grease;
- Apply commercially available anti-corrosion silicone based agents on the surface of bolts and pins to inhibit the corrosion onset.
- Apply commercially available tyre maintenance products on the tyres 2-3 times a year to protect them from UV rays.

- In the case of long time of downtime, the machine should be slightly moved in order to change the tyre position, so that it not be deformed and the air pressure in tyres should be checked. This procedure should be carried out once a month on average.
- Store the controller and the wire in a domestic environment during periods of downtime.

Store the controller and the wire in a domestic environment.
Exposing the controller to weather factors may cause permanent damage.

9.4 Troubleshooting

FAULT	CAUSE	SOLUTION
The control box does not start up.	No power.	Check the connection of the controller to the relay box.
		Check the fuses in the tractor and the controller.
		Check that the cable is not damaged.
No hydraulic cylinder movements.	Incorrect connection of the hydraulic supply and return lines.	Swap the return line with the supply line in the tractor sockets.
Incorrect operation of the hydraulic system.	Damaged hydraulic line or cylinder.	Replacement or service.
	Dirty oil filter.	Filter cartridge replacement.
	Incorrect viscosity of the hydraulic oil.	Check the quality of the oil, make sure that the oils in both machines are of the same type. If necessary, change the oil in the tractor and / or the wrapper.
	Tractor pump is faulty.	Repair and service of the damaged system.
Hydraulic oil does not return from the cylinders.	The output of the tractor's hydraulic pump is too high.	Reduce the tractor oil pump flow. (min. 15l/min) (max. 23l/min)
	Hydraulic line obstruction.	Check the lines for bends or damage. Replace if necessary.
Hydraulic cylinder does not perform full range of motion, turntable operation is intermittent.	The output of the tractor's hydraulic pump is too low.	Check and replace the oil filter if necessary.
		Increase the tractor oil pump flow. (min. 15l/min) (max. 23l/min)
Noise coming from chain gears/sprockets.	Loose chain.	Adjust the chain tension.
		Drive chain is too stretched. Replace the chain.
	Contamination of the transmission system.	Check bearings, clean and lubricate chains, or replace in case of excessive wear.
Unnatural noise during work of the road axle.	Bearing wear.	Bearing replacement.
	Bearing play.	Bearing adjustment.

	Wheel hub component damaged.	Replace damaged hub set.
The foil is too loose.	The bottom foil clamp is adjusted incorrectly.	Increase clamp pressure on the roller by adjusting the bottom foil dispenser clamp (tighten).
	The foil slides on the tubes of the foil dispenser.	Clean and use silicone spray on the knurled surfaces of the foil rollers.
Foil tearing.	The bottom foil clamp is adjusted incorrectly.	Reduce clamp pressure on the roller by adjusting the bottom foil dispenser clamp (loosen).
	Damaged foil.	Check foil and replace if necessary.
	Damaged or blocked foil dispenser rollers.	Replace the foil dispenser rollers.
		Check the bearings, wheels, and gears of the roller and replace if necessary.
	Irregular bale shape.	Reduce the speed while wrapping. Make sure the bale is properly formed.
	Foil sticking in the wind.	Check foil tension.
	The wrapping speed is too high.	Reduce the wrapping speed.
Asymmetrical or irregular bale wrapping.	Incorrect foil dispenser height.	Adjust the height of the foil dispenser to the bale size.
The bale falls off the machine during wrapping.	The wrapping speed is too high.	Reduce the wrapping speed.
	The terrain slope is too high.	Wrap on as flat sections of the field as possible.
	Irregular bale shape.	Make sure the bale is properly formed / reduce the wrapping speed.
Foil is not cut off properly.	Damaged or dull foil blade.	Replace the foil blade.
The Cut&Hold unit does not hold the foil or it releases too soon.	The foil does not hit the correct position of the foil holding unit.	Adjust the position of the Cut&Hold frame on the turntable.
	The foil is released before the start of the new cycle.	Check the charge of the spherical hydraulic accumulator and adjust if necessary.

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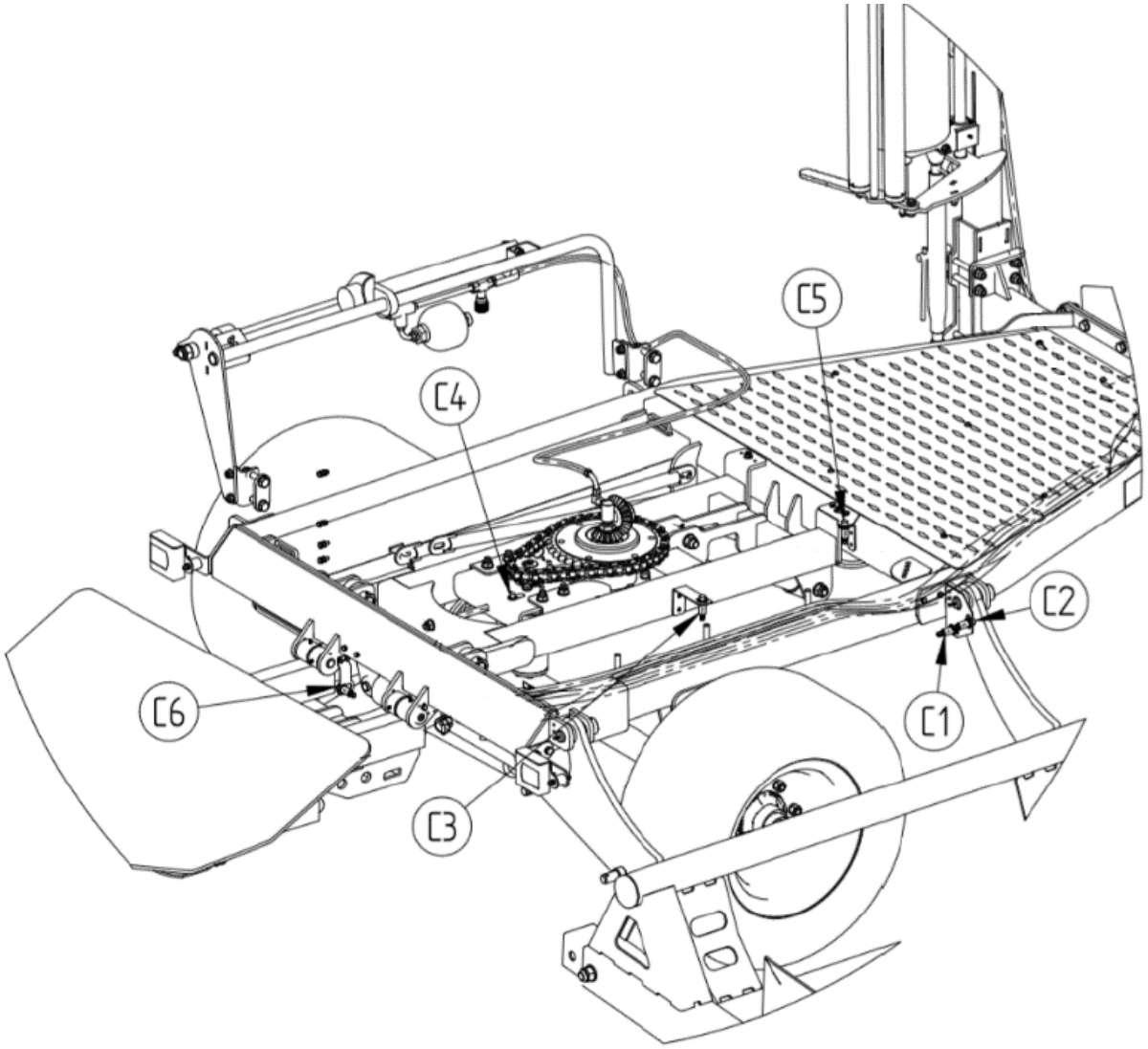
9.4.2 The principle of operation of sensors and the method of their calibration.



Symbol	Function
C1	Bale loader arm – bottom
C2	Bale loader arm – top
C3	Bale loading position
C4	Bale unloading position
C5	Bale dumping
C6	Bale tipper - lower table position

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Sensor	Principle of work and responsibility	Possible faults	Solution
C1	Responsible for ending the movement in the **bottom** position of the loader arm. It specifies the stopping height of the loader arm above the ground when descending. When ascending, it blocks the possibility of lifting the loader arm beyond the safe zone during turntable operation.	-The sensor does not stop the loader arm in the bottom position, or it does it in the wrong place. -The bale collides with the turntable.	The sensor is adjusted in two planes: -moving away from the loader arm (recommended 14-16mm) when the sensor cannot see the dedicated sensing point -the arm stop position is adjustable on the adjustment hole of the sensor bracket
C2	Responsible for ending the movement in the **top** position of the loader arm. It ends the loading movement of the loader arm. Attention! In the top position, the sensor provides information when the sensor lighting goes out – opposite than in other cases.	The sensor does not stop the loader arm in the top position or it does it in the wrong place.	The sensor is adjusted in two planes: -moving away from the loader arm (recommended 14-16mm) when the sensor cannot see the dedicated sensing point -the arm stop position is adjustable on the adjustment hole of the sensor bracket
C3	Informs when the turntable is in the bale loading position. This grants the possibility of the loader arm to lift to the top position.	The turntable does not stop parallel to the main frame/loader arm or cannot sense the loading position.	The sensor cannot see the sensing point under the central chain guard. The position of the sensor/plate should be adjusted so that the sensor sees the sensing point when the turntable is **parallel** to the main frame.
C4	The bale unloading position allows for unloading the bale after performing a set number of rotations or re-positioning the turntable for unloading. When the sensor is active, it enables the hydraulic cylinders of the turntable unloading, bale tipper and loader arm to work.	The turntable does not stop parallel to the rear beam of the main frame or cannot see the unloading position.	The sensor cannot see the sensing point under the central chain guard. The position of the sensor/plate should be adjusted so that the sensor sees the sensing point when the turntable is **perpendicular** to the main frame.
C5	The tipping sensor informs about the position of the turntable frame. It provides information about the end of bale unloading and, when it is in position, enables the movement of the turntable.	After unloading, the turntable does not position itself for loading: no information about the end of movement. A sensor error also occurs when the turntable is raised during wrapping.	Adjust the sensor height relative to the sensing point (14-16mm). In the event of lifting the turntable during wrapping, reduce the pump flow in the tractor.
C6	Bale damper position. It informs when the tipper is in the safe position, thus protecting the damper against a collision with the turntable. When in position, it enables the turntable to rotate.	The sensor position error blocked the turntable movement.	Correct the position of the sensor so that it can see the damper frame when folded down.

ATTENTION!

The described symptoms may also occur when the sensor is damaged and does not work properly. The sensor must be replaced with a new one.

10. Disassembly, disposal and environment protection

In the event the machine is worn to the extent which prevents its further use, it should be scrapped. This also applies to regular repairs and replacement of damaged parts. Clean the machine thoroughly before scrapping. Drain oil from the machine and have the machine decommissioned. Next, disassemble the machine by segregating its parts based on the applied materials. Segregated parts should be transported to a scrap yard or disposed of.

The machine is 100% environmentally friendly. 98% of the materials used in the production process are recyclable. Worn machine parts must be disposed of in line with the local environment protection regulations. Prevent oil leakage throughout the period of use of the machine, as oil may pollute the environment.

Protect your hands (and body) against injuries, and the harmful effects of lubricants and oils. Use personal equipment measures and tools which are in good mechanical condition. Machine elements, which when dismounting can move or rotate, must be properly secured.

Worn or damaged parts removed during repair (disassembly) should be stored in a separate location, with limited access for persons and animals. Worn out metal parts must be delivered to the scrap metal collection points. Worn out plastics must be delivered to the chemical waste collection (disposal) points.

When filling up or replacing the oil, avoid its spillage. Store the waste oil in sealed containers, and periodically deliver it to the special collection (disposal) points.

Abandoned parts or machine components, and spilled oil, may pose a risk of accident, cause an environmental pollution and violate applicable laws.

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11. Additional equipment

Additional equipment is only available on request in the premium version by prior agreement with the manufacturer. Table 12 presents additional equipment.

EQUIPMENT	VERSION	
	STANDARD	PREMIUM
Additional film dispenser	NO	YES
Work cycle auto-start	NO	YES
Workstation lighting	NO	YES
Turning support wheel	NO	YES
Radio control	NO	YES
Additional film storage	NO	YES

Table 12 Refitting options for the premium version

12. Spare parts catalogue

Spare parts ordering method.

Each order form should include the following:

- Address of the buyer,
- exact shipping address (place where machine is located or other means for delivery collection),
- terms of payment,
- serial number and year of production of the bale wrapper (according to the plate located on the machine),
- spare part number,
- spare part name,
- number of parts ordered.

Spare parts must be ordered at the points of sale of the machines or from the manufacturer. Use only the original spare parts provided by the manufacturer, to guarantee safe and reliable operation of the machine. The use of not original spare parts or parts, which have been repaired, will void the warranty.

The manufacturer reserves its right to make changes in the construction of parts presented on the particular assembly drawings in this spare parts catalogue. Such changes may not always be updated in the User Manual and in the spare parts catalogue. Individual drawings may differ from the actual look of the parts.

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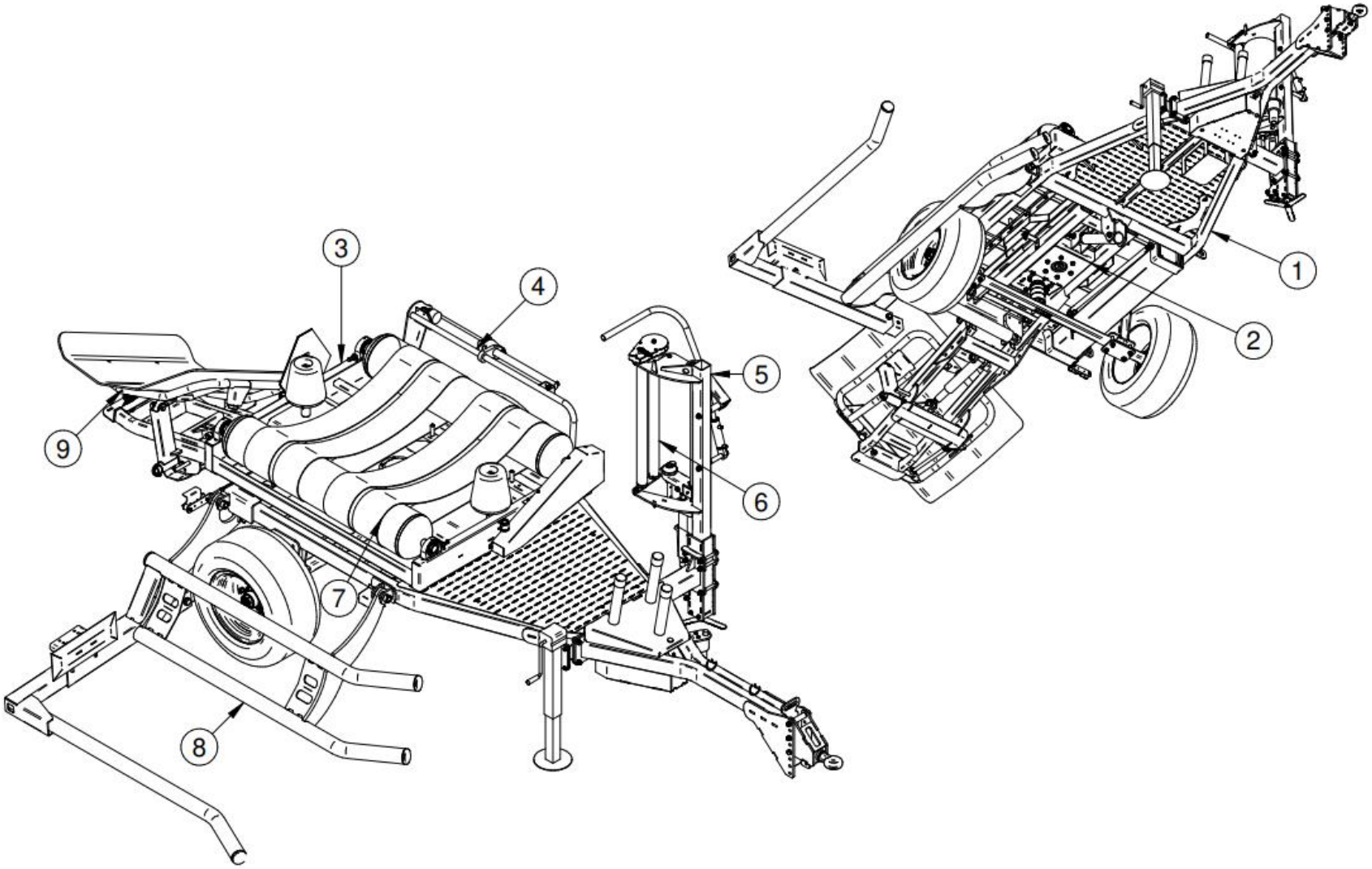
12.1 General design



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General design				
Item	**Part No.**	**Title**	**Quantity**	**Index/Section No.**
1	OW 01.00.00.00	Bottom frame, set	1	**P810000/12.2.** Bottom frame, set
2	OW 02.00.00.00	Turntable slide base	1	**P810109/12.11.** Turntable slide base, set
3	OW 03.00.00.00	Rotary frame, set	1	**P810075/12.14.** Rotary frame, set
4	OW 04.00.00.00	Film cut and hold	1	**P810119/12.16.** Film cut and hold, set
5	OW 05.00.00.00	Dispenser post	1	**P810135/12.17.** Dispenser post, set
6	OW 06.00.00.00	Film dispenser	1	**P810184/12.19.** Film dispenser, set
7	OW 07.00.00.00	Table rollers	1	**P810202/12.22.** Table rollers, set
8	OW 08.00.00.00	Bale grab	1	**P810147/12.25.** Bale grab, set
9	OW 09.00.00.00	Bale tipper	1	**P810247/12.26.** Bale tipper, set

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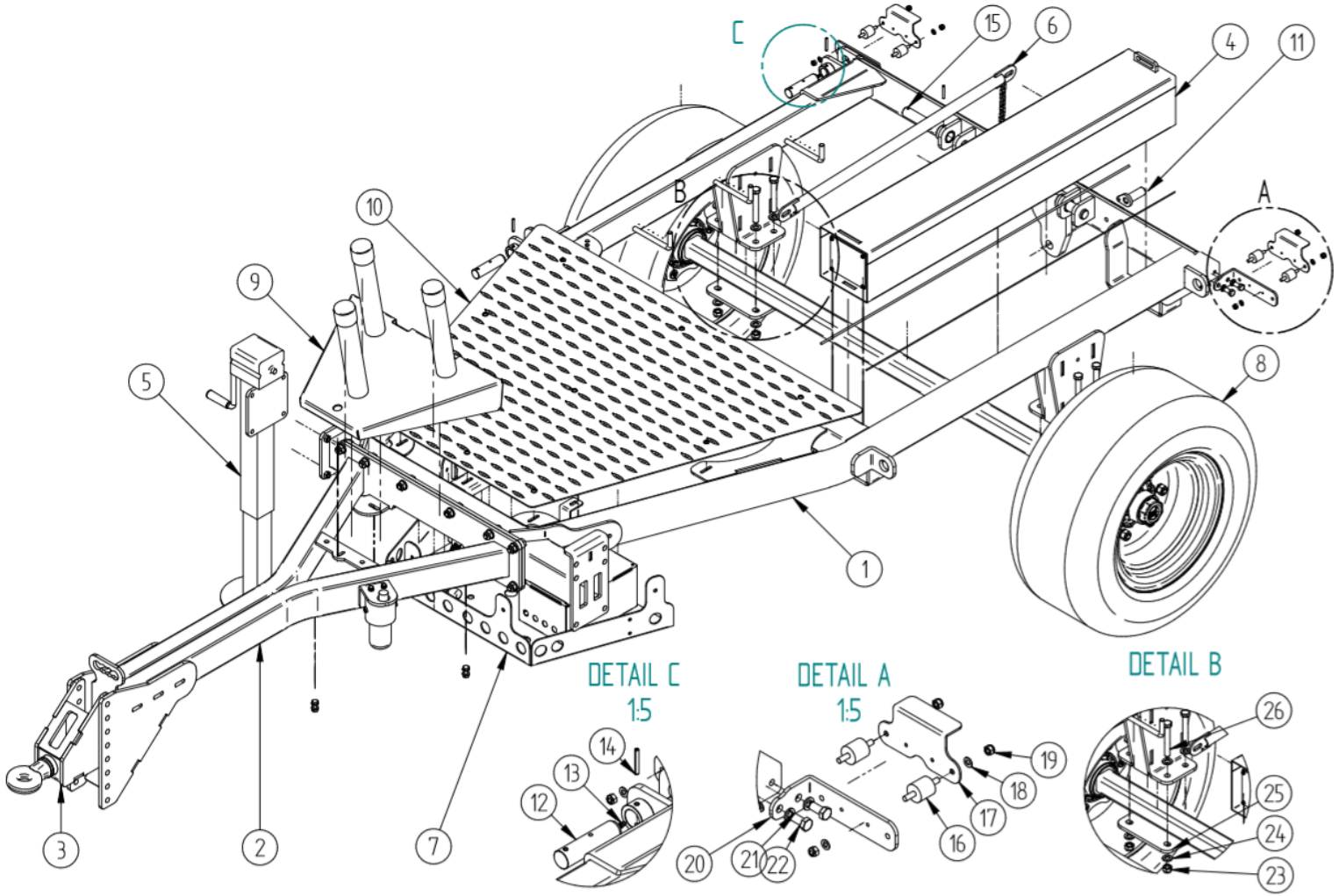
12.2 Bottom frame, set



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Bottom frame				
Item	**Part No.**	**Title**	**Quantity**	**Index/Section No.**
1	OW 01.01.00.00	Welded frame	1	P810008
2	OW 01.02.00.00	Drawbar, set	1	12.3.
3	OW 01.03.00.00	Hitch fixing, set	1	12.4.
4	OW 01.04.00.00	Counterweight, set	1	P810054/12.5.
5	OW 01.05.00.00	Support foot	1	12.6.
6	OW 01.06.00.00	Safety arm, set	1	12.7.
7	OW 01.07.00.00	Manifold fixing, set	1	12.8.
8	OW running axle (156N-89) - set	Running axle	1	T002567/ T002568
9	OW 01.09.00.00	Film storage, set	1	12.9.
10	Platform	Platform, set	1	12.10.
11	OW 01.10.00.00	Grab actuator pin	1	P810325
12	OW 01.00.00.01	Bale grab pin	2	P810001
13	Grease nipple	Straight grease nipple M6x1	2	T000645
14	Spring-type straight pin fi6x45	Spring-type straight pin fi6x45 St	4	T002777
15	OW 01.00.00.04	Slide base pin	2	P810004
16	Vibration damper moc. led	Vibration damper	4	T000231
17	OW 01.00.00.08	Lamp fixing	2	P810007
18	Flat washer Φ 8-galv.	Flat washer Φ 8-galv.	10	T000471
19	Hex nut.M8-8-galv.-self-lock.	Self-locking nut	8	T000256
20	OW 01.00.00.07	Lamp angle	2	P810006
21	Lock wash. Φ 12-galv.	Lock washer Φ 12-galv.	4	T000451
22	Hex screw M12x25-8.8-GAL	Hex screw M12x25-8.8-GAL	4	T002633
23	Hex. nut.M16-8-galv.-self-lock.	Hex. nut.M16-8-galv.-self-lock.	8	T000294
24	Flat washer Φ 16-galv.	Round washer Φ 16-galv.	16	T000460
25	OW 01.00.00.03	Running axle flange	2	P810003
26	Hex. screw M16x110 np.gw	Hex. screw M16x110 np.gw	8	T000773

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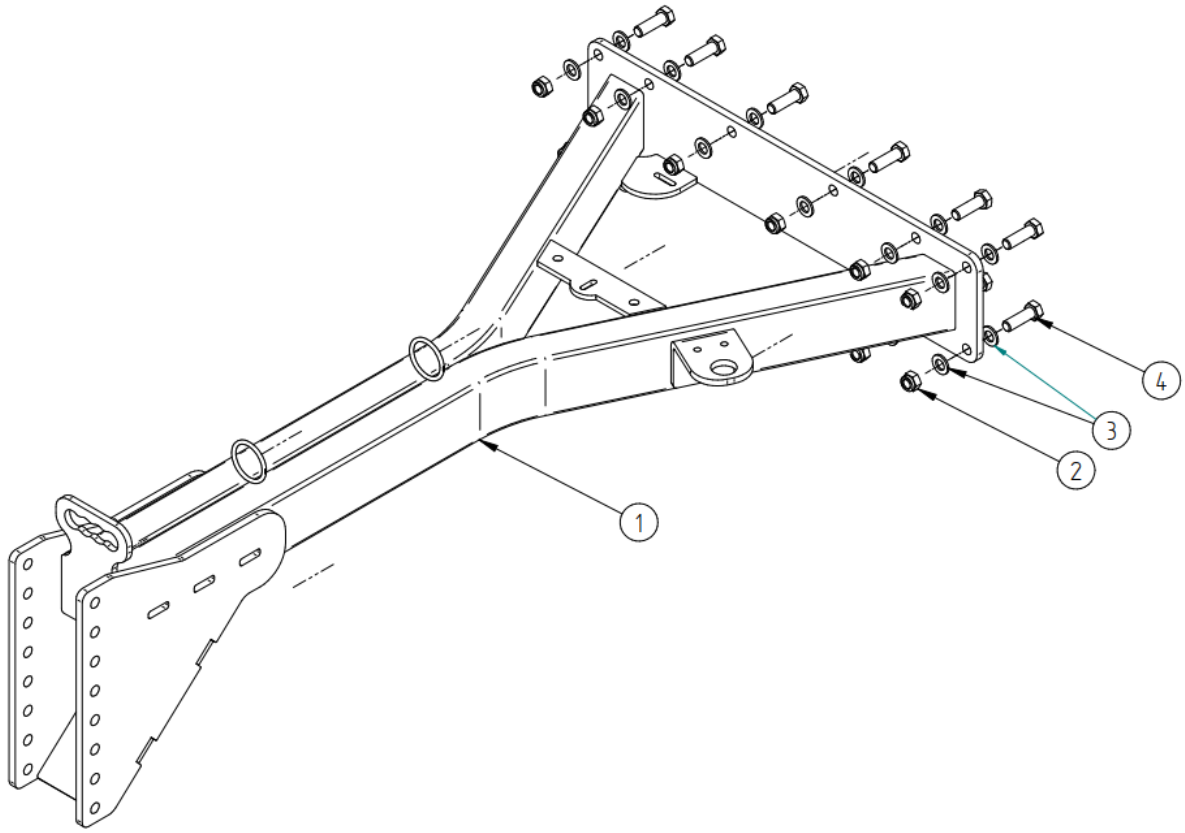
12.3 Drawbar, set



Drawbar, set				
Pos.	**Part number**	**Description**	**Quantity**	**Index**
1	OW 01.02.00.00	Drawbar	1	P810040
2	M18 self-stop hex nut galv.	M18 self-stop hex nut galv.	10	T000294
3	Φ16 washer	Φ16 washer	20	T000460
4	M16x50 bolt 8.8 galv.	M16x50 bolt 8.8 galv.	10	T000781

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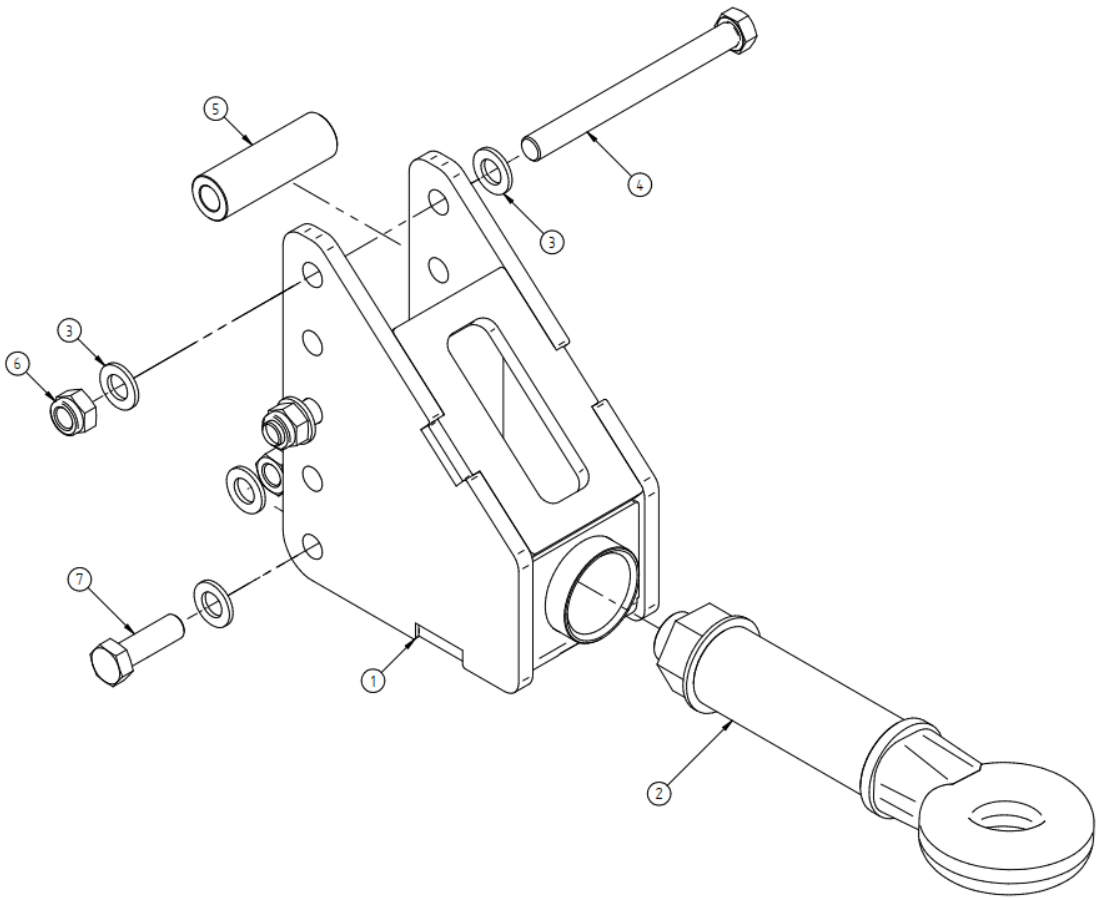
12.4 Hitch, set



Hitch, set				
Item	**Part No.**	**Title**	**Quantity**	**Index**
1	OW 01.03.00.00	Hitch fixing	1	P810050
2	Hitch eye	Hitch eye	1	T002574
3	Washer Φ 16-galv.	Washer Φ 16-galv.	8	T000460
4	Hex screw M16x170-8.8-galv.	Hex screw M16x170-8.8-galv.	2	T002772
5	OW 01.03.00.01	Hitch fixing spacer	2	P810005
6	Self-locking nut M16	Self-locking nut M16	4	T000294
7	Hex screw M16x50-8.8-galv.	Hex screw M16x50-8.8-galv.	2	T000781

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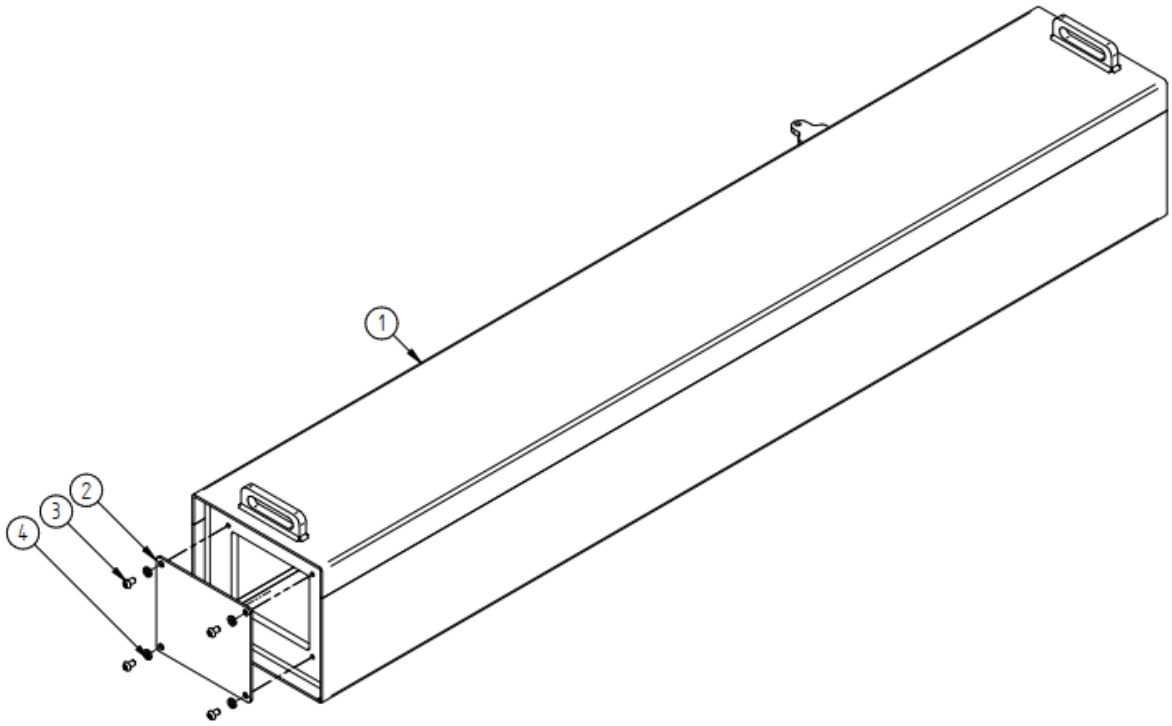
12.5 Counterweight, set



Counterweight, set				
Item	**Part No.**	**Title**	**Quantity**	**Index**
1	OW 01.04.01.00	Counterweight	1	P810056
2	OW 01.04.00.01	Lid	1	P810055
3	Round head bolt M6x10 galv.	Round head bolt M6x10 galv.	4	T000940
4	Lock wash. Φ 6-galv.	Lock wash. Φ 6-galv.	4	T002773

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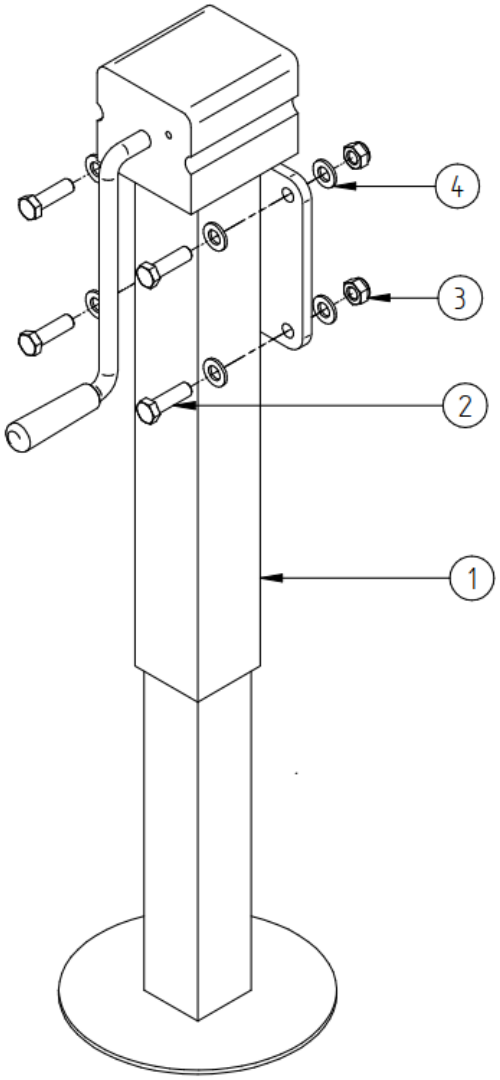
12.6 Support foot, set



Support foot, set				
Item	**Part No.**	**Title**	**Quantity**	**Index**
1	OW 01.05.00.00	Support foot	1	P810061
2	Hex screw M12x40-8.8-galv.	Hex screw M12x40-8.8-galv.	4	T000757
3	Hex. nut M12-8-GAL-self-cl.	Hex. nut M12-8-GAL-self-cl.	4	T000291
4	Washer Φ 12-galv.	Washer Φ 12-galv.	8	T000458

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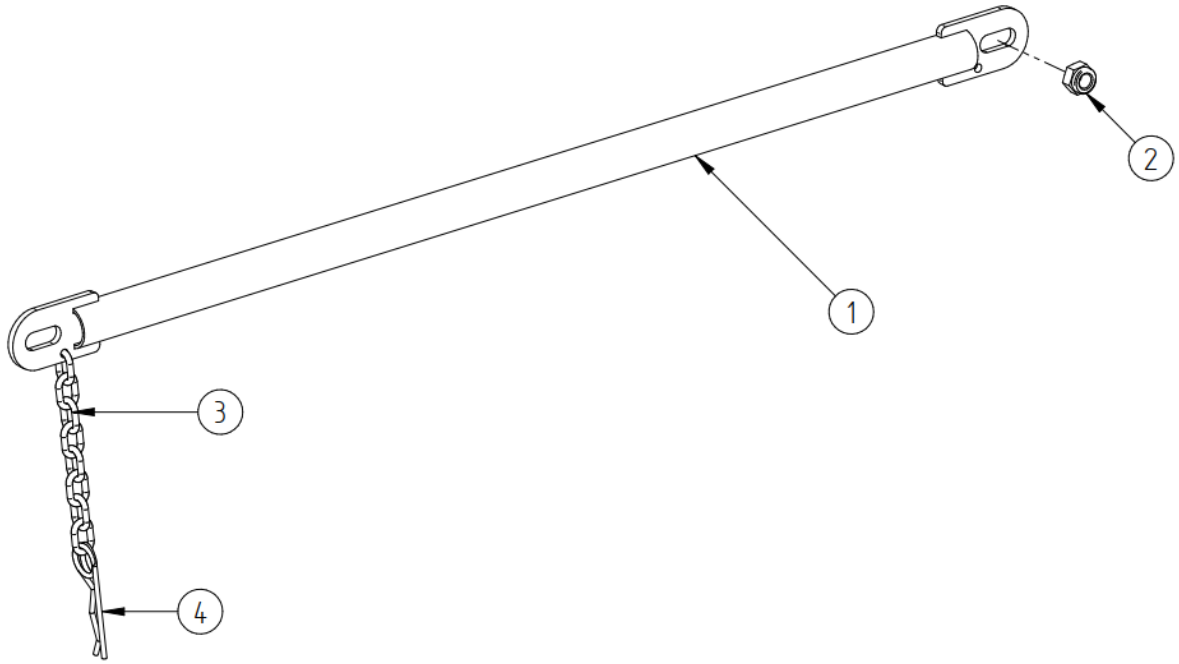
12.7 Service arm, set



Service arm, set				
Item	**Part No.**	**Title**	**Quantity**	**Index**
1	OW 01.06.01.00	Safety arm	1	P810064
2	Hex nut M14-8-galv.-self-lock.	Hex nut M14-8-galv.-self-lock.	1	T000293
3	Chain	Chain	1	T000167
4	Double locking pin	Double locking pin	1	T000987

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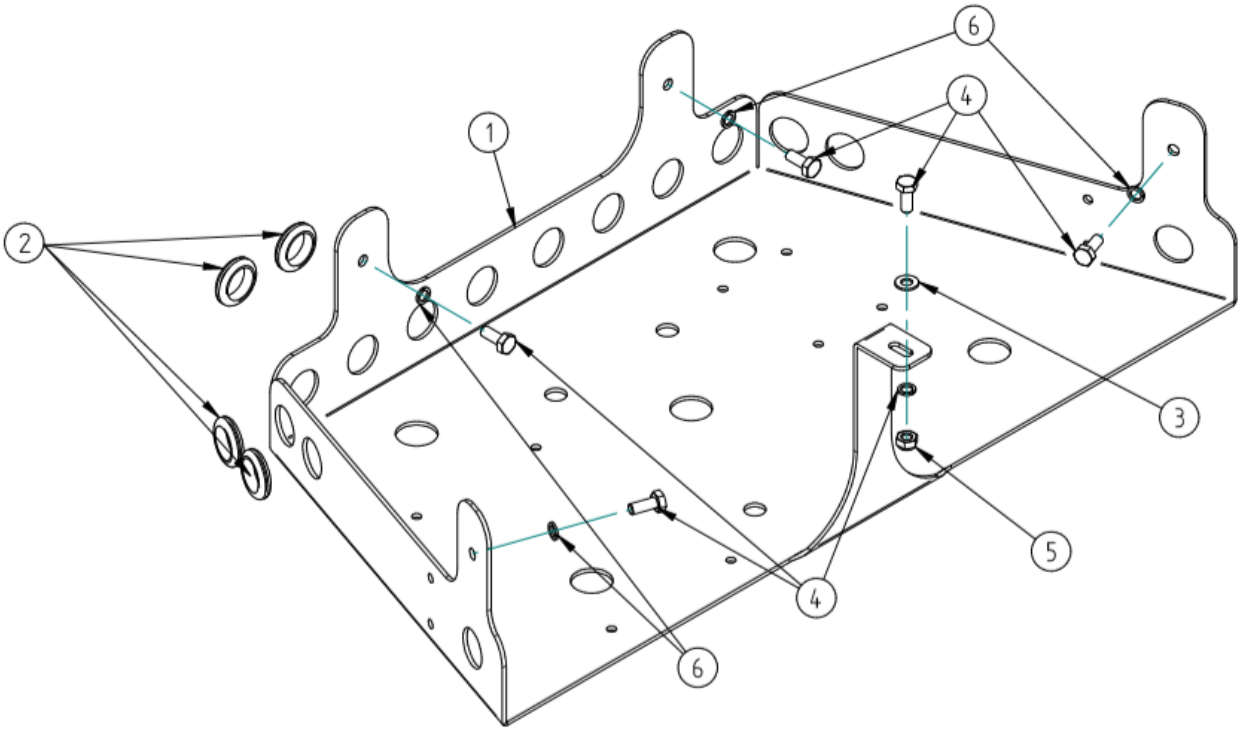
12.8 Manifold fixing, set



Manifold fixing, set				
Item	**Part No.**	**Title**	**Quantity**	**Index**
1	OW 01.07.00.00	Manifold fixing	1	
2	Bush	Bush	2	T002414
3	Washer Φ 10-galv.	Washer Φ 10-galv.	1	
4	Hex screw M10x25-8.8-galv.	Hex screw M10x25-8.8-galv.	3	
5	Hex. nut.M10-8-GAL self-cl.	Hex. nut.M10-8-GAL self-cl.	1	T000292
6	Lock washer Φ 10-galv.	Lock washer Φ 10-galv.	5	

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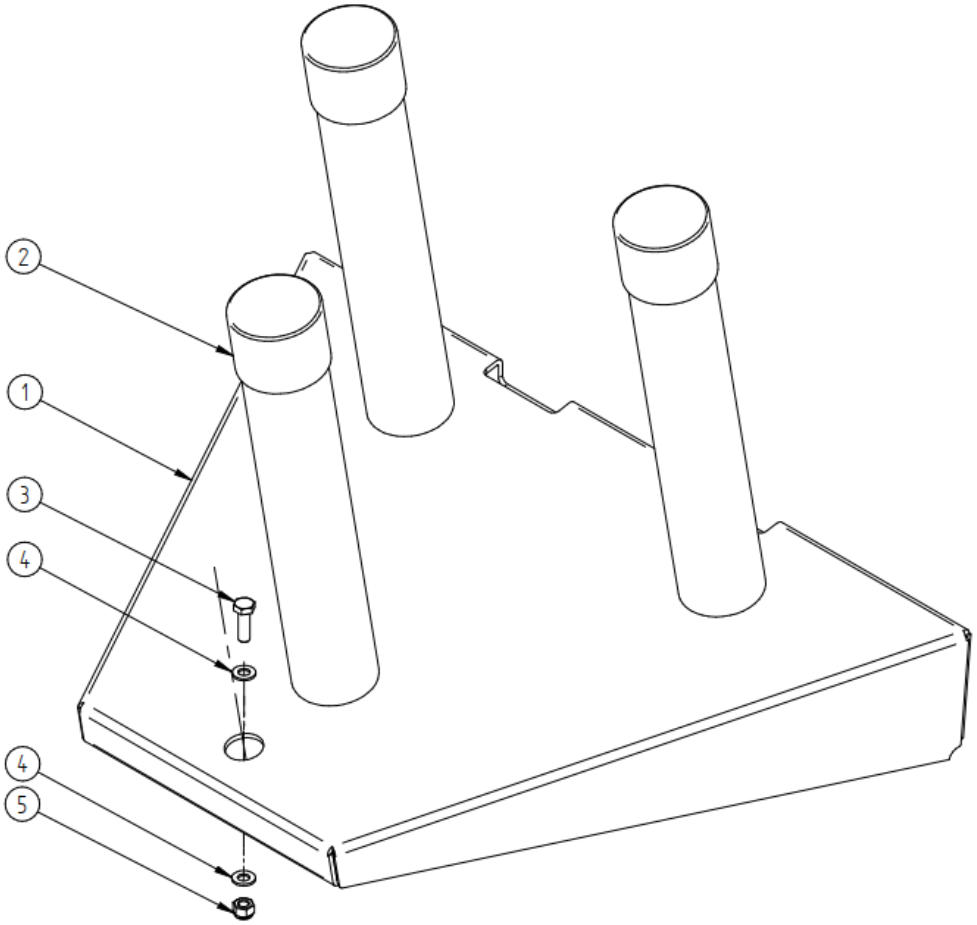
12.9 Film storage, set



Film storage, set				
Item	**Part No.**	**Title**	**Quantity**	**Index**
1	OW 01.09.00.00	Film storage	1	P810068
2	Pipe caps	Pipe caps	3	T002648
3	Hex screw M8x25-8.8-GAL	Hex screw M8x25-8.8-GAL	1	T000805
4	Washer Φ 8-galv.	Washer Φ 8-galv.	2	T000471
5	Nut M8-galv.-self-lock.	Self-locking nut	1	T000256

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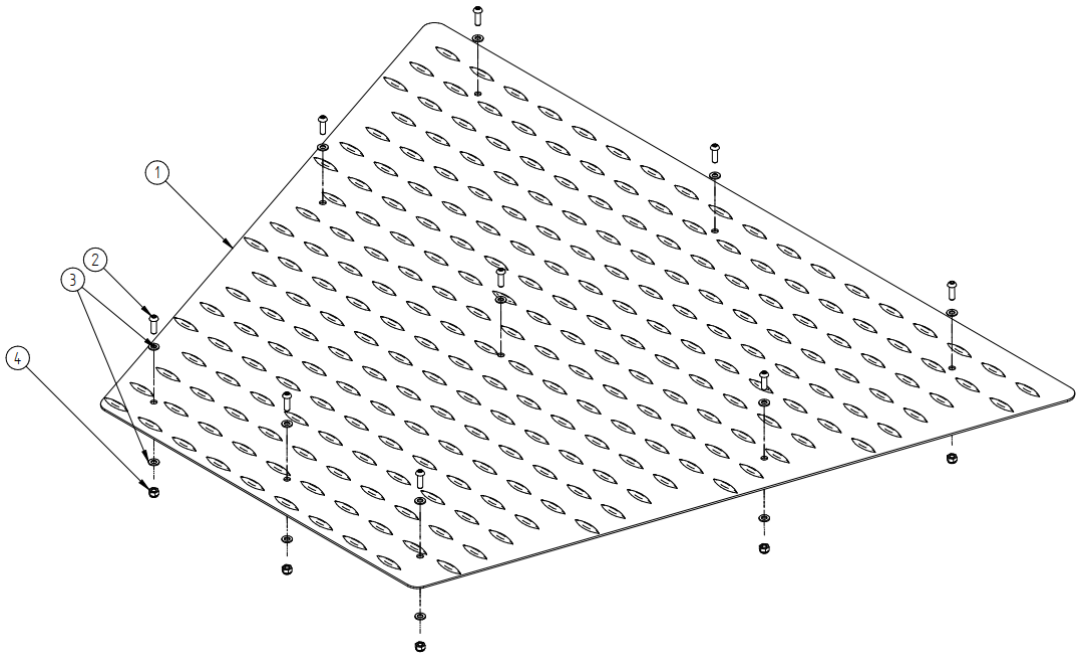
12.10 Platform, set



Platform, set				
Item	**Part No.**	**Title**	**Quantity**	**Index**
1	OW 01.00.00.02	Platform	1	P810002
2	Round head bolt M8x25 galv.	Round head bolt M8x25 galv.	9	T000806
3	Washer Φ 8-galv.	Washer Φ 8-galv.	18	T000471
4	Nut M8-galv.-self-lock.	Nut M8-galv.-self-lock.	18	T000256

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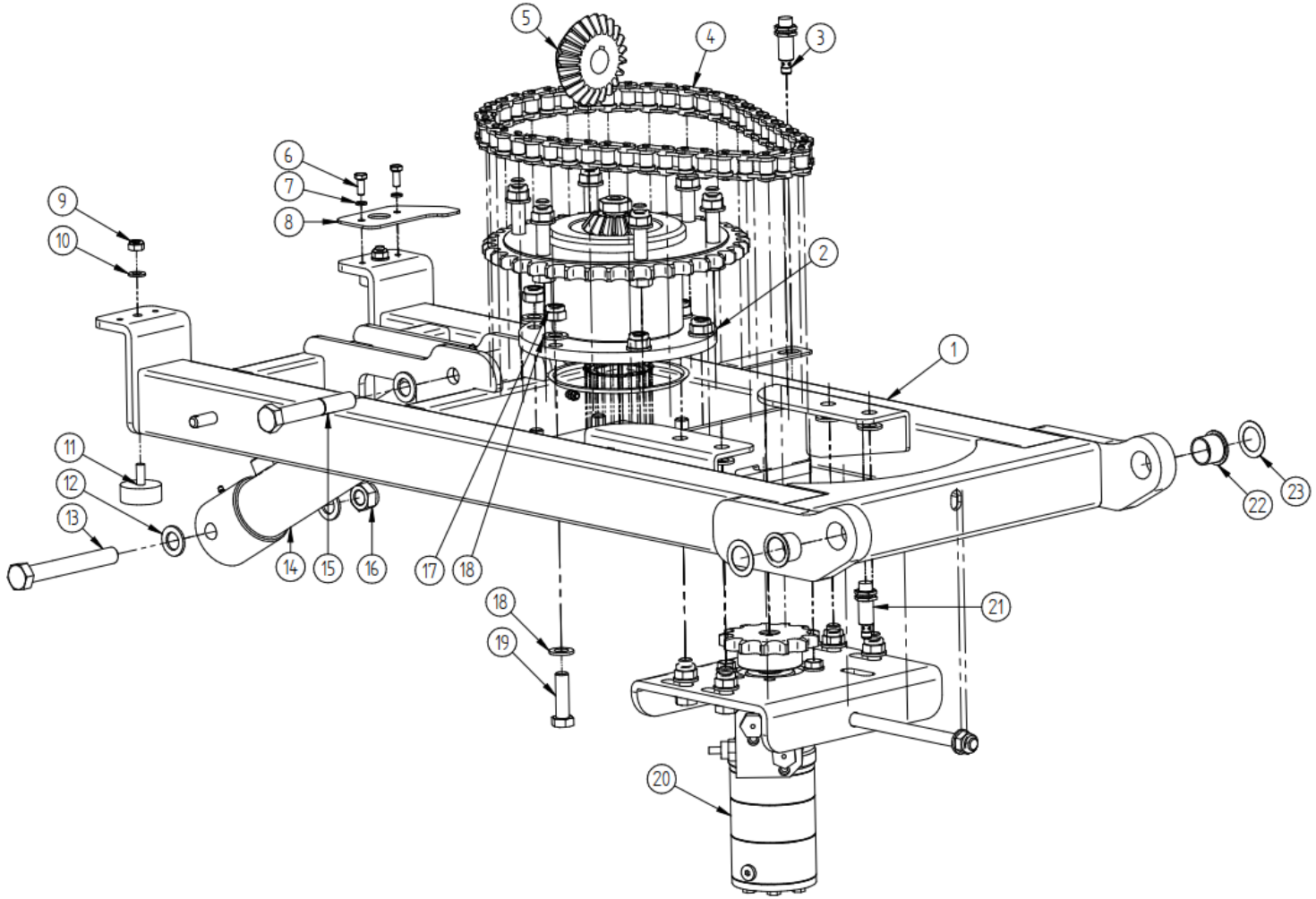
12.11 Turntable slide base, set



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TURNTABLE SLIDE BASE, SET				
Item	**Part No.**	**Title**	**Quantity**	**Index/Section No.**
1	OW 02.01.00.00	Slide base frame	1	P810110
2	OW 02.02.00.00	Rotary base	1	P810136
3	Sensor	Unloading sensor	1	T001137
4	Rotary frame rotation chain	Rotary frame rotation chain	24 links	T002613
5	Cone wheel, big	Cone wheel, big	1	T002593
6	Bolt M8x20	Bolt M8x20	2	T000804
7	Lock washer Φ 8	Lock washer Φ 8	2	T000455
8	OW 02.00.00.01	Slide sensor position plate	1	P810071
9	Self-locking nut M10	Self-locking nut M10	2	T000292
10	Washer Φ 10	Washer Φ 10	2	T000456
11	Bumper	Bumper	2	T002706
12	Washer Φ 20	Washer Φ 20	4	T000462
13	Bolt M20x150 np.gw.	Bolt M20x150 np.gw.	1	T000790
14	Slide base actuator	Slide base actuator	1	T002597
15	Bolt M20x130 np.gw.	Bolt M20x130 np.gw.	1	T002109
16	Self-locking nut M20	Self-locking nut M20	2	T000255
17	Self-locking nut M16	Self-locking nut M16	6	T000294
18	Washer Φ 16	Washer Φ 16	12	T000460
19	Bolt M16x50	Bolt M16x50	6	T000781
20	OW 02.03.00.00	Drive assembly	1	P810143
21	Sensor	Loading position sensor		T001137
22	Slide base sliding sleeve	Slide base sliding sleeve	2	T002785
23	Washer Φ 30	Washer Φ 30	2	T000466

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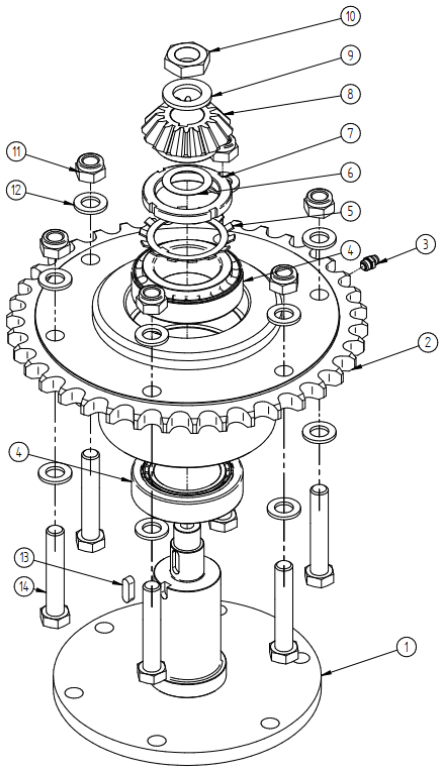
12.12 Rotary base



ROTARY BASE, SET				
Item	**Part No.**	**Title**	**Quantity**	**Index/Section No.**
1	OW 02.02.01.00	Pin	1	P810137
2	OW 02.02.02.00	Hub	1	P810140
3	Grease nipple M10x1	Grease nipple M10x1	1	T000643
4	Bearing	Bearing	2	T002621
5	Washer mb12	Washer mb12	1	T002630
6	Shim Φ 30	Shim Φ 30		T002789/ T000514
7	Nut KM12	Nut KM12	1	T002630
8	SCW	Cone wheel, small	1	T002594
9	Washer Φ 25	Washer Φ 25	1	T000464
10	Nut M24x1.5-low	Nut M24x1.5-low	1	T000281
11	Self-locking nut M16	Self-locking nut M16	6	T000294
12	Washer Φ 16	Washer Φ 16	12	T000460
13	Key 8x7x25	Key 8x7x25	1	T002774
14	Bolt M16x90	Bolt M16x90	6	T000785

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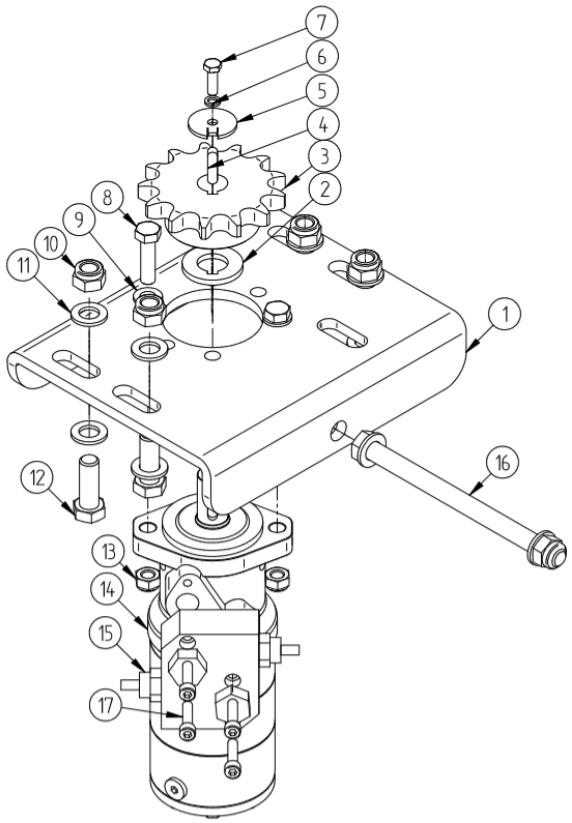
12.13 Drive assembly



DRIVE ASSEMBLY, SET				
Item	**Part No.**	**Title**	**Quantity**	**Index/Section No.**
1	OW 02.03.00.01	Motor fixing	1	P810144
2	OW 02.03.00.03	Washer	1	P810316
3	OW 02.03.01.00	Motor gear wheel	1	P810146
4	Key 8x7x32	Key 8x7x32	1	T000953
5	OW 02.03.00.02	Washer	1	P810145
6	Lock washer Φ 8	Lock washer Φ 8	1	T000455
7	Bolt M8x25	Bolt M8x25	1	T000805
8	Bolt M12x45	Bolt M12x45	2	T000758
9	Washer Φ 12	Washer Φ 12	2	T000458
10	Self-locking nut M16	Self-locking nut M16	5	T000291
11	Washer Φ 16	Washer Φ 16	10	T000294
12	Bolt M16x45	Bolt M16x45	4	T002565
13	Self-locking nut M12	Self-locking nut M12	2	T000291
14	Motor	Motor	1	T002686
15	Motor valve	Motor valve	1	T003002
16	Bolt M16x220	Bolt M16x220	1	T002409
17	Hex socket head screw M8x35	Shock valve screw	4	T000937

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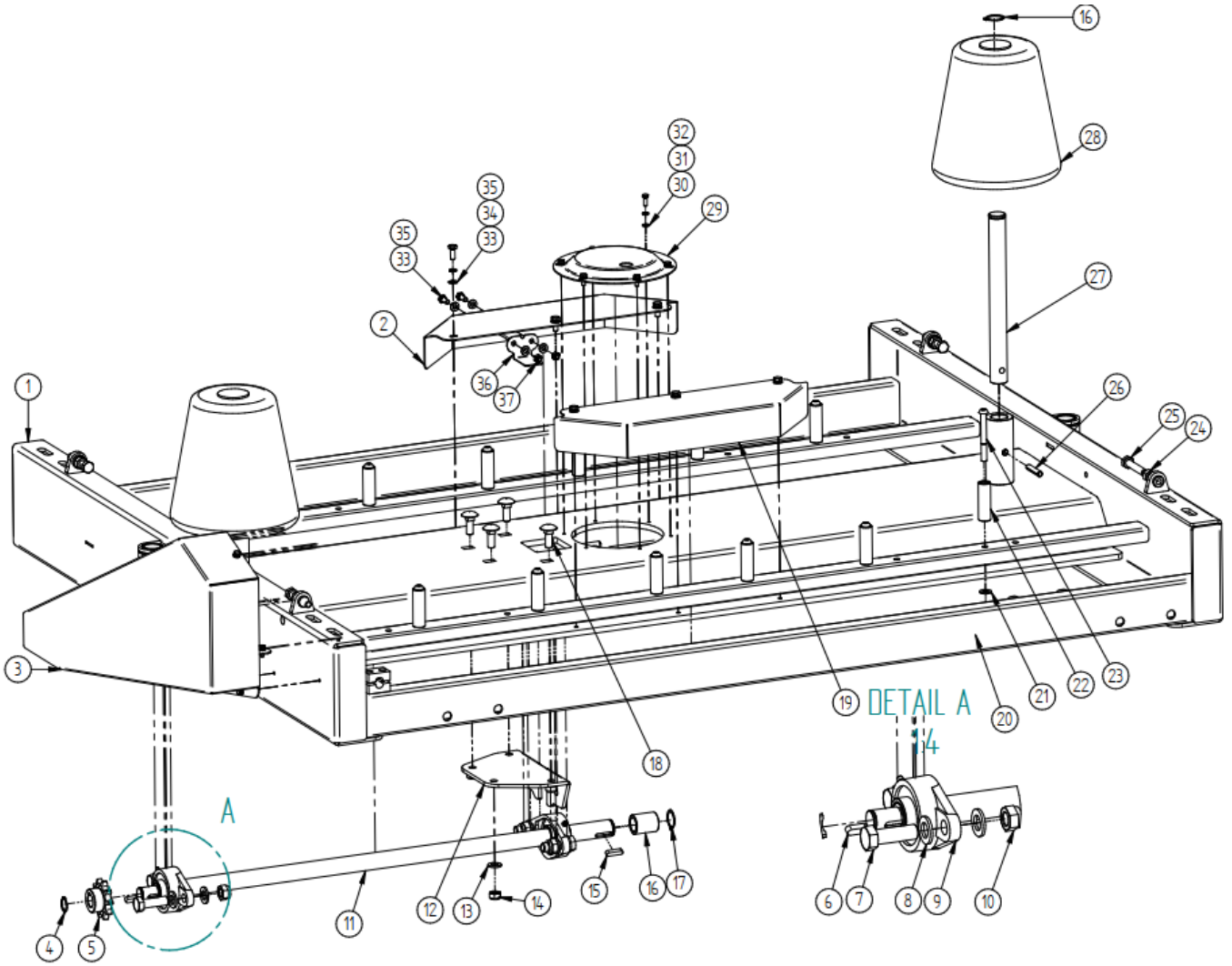
12.14 Rotary frame, set



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ROTARY FRAME, SET				
Item	**Part No.**	**Title**	**Quantity**	**Index**
1	OW 03.01.00.00	Rotary frame	1	P810082
2	OW 03.00.00.08	Frame rotation chain guard - sensor	1	P810078
3	OW 03.03.00.00	Chain guard, set	1	P810102
4	Circlip Z22	Circlip Z22	1	T002775
5	OW 03.00.00.13	Table roller drive wheel gear	1	P810099
6	Key 8x7x25	Key 8x7x25	1	T002774
7	Bolt M16x45	Bolt M16x50	4	T002565
8	Washer Φ 16	Washer Φ 16	8	T000460
9	Drive shaft bearing	Drive shaft bearing	2	T001059
10	Self-locking nut M16	Self-locking nut M16	4	T000294
11	OW 03.00.00.02	Table roller drive shaft	4	P810077
12	OW 03.00.00.01	Internal bearing fixing	1	P810076
13	Washer Φ 12	Washer Φ 12	4	T000458
14	Nut M12 self-locking	Nut M12 self-locking	4	T000291
15	Key 8x7x32	Key 8x7x32	1	T000953
16	OW 03.00.00.12	Spacer sleeve KS	1	P810323
17	Circlip Z30	Circlip Z30	3	T000410
18	Carriage bolt M12x45	Carriage bolt M12x35	4	T002771
19	OW 03.00.00.03	Frame rotation chain guard	1	P810078
20	Nut M10 self-locking	Nut M10 self-locking	12	T000292
21	Washer Φ 10	Washer Φ 10	12	T000456
22	Belt guiding sleeve	Belt guiding sleeve	12	P810080
23	Button screw M10x90	Button screw M10x90	12	T002769
24	Nut M12	Nut M12	4	T000291
25	Bolt M12x70	Bolt M12x70	4	T001365
26	Spring-type straight pin Φ10x50	Spring-type straight pin Φ10x50	2	T002776
27	OW 03.00.00.04	Bumper axle	2	P810079
28	Side bumper	Side bumper	2	T002766
29	OW 03.00.00.06	Drive cover	1	P810081
30	Washer Φ 6	Washer Φ 6	6	T000469
31	Lock washer Φ 6	Lock washer Φ 6	6	T002773
32	Bolt M6x16	Bolt M6x16	6	T000800
33	Washer Φ 8	Washer Φ 8	10	T000471
34	Lock washer Φ 8	Lock washer Φ 8	6	T000455
35	Bolt M8x20	Bolt M8x20	8	T000804
36	OW 03.00.00.10	Rotary frame position sensor plate	1	P810322
37	Nut M8 self-locking	Nut M8 self-locking	2	T000256

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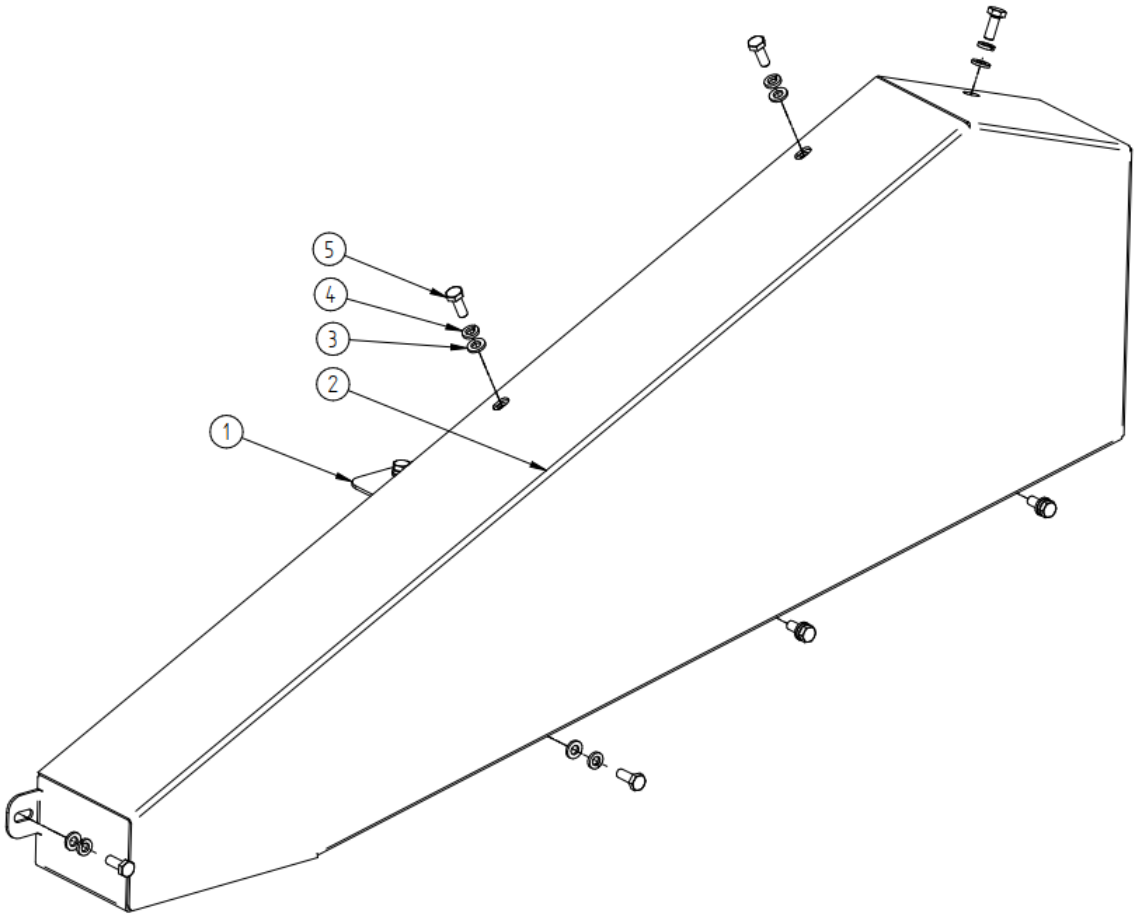
12.15 Chain guard



MIDDLE FRAME SET				
Item	**Part No.**	**Title**	**Quantity**	**Index**
1	OW 03.03.01.00	Guard rear wall	1	P810103
2	OW 03.03.02.00	Chain guard	1	P810106
3	Washer Φ 6	Washer Φ 6	10	T000469
4	Lock washer Φ 6	Lock washer Φ 6	10	T002773
5	Bolt M6x16	Bolt M6x16	10	T000800

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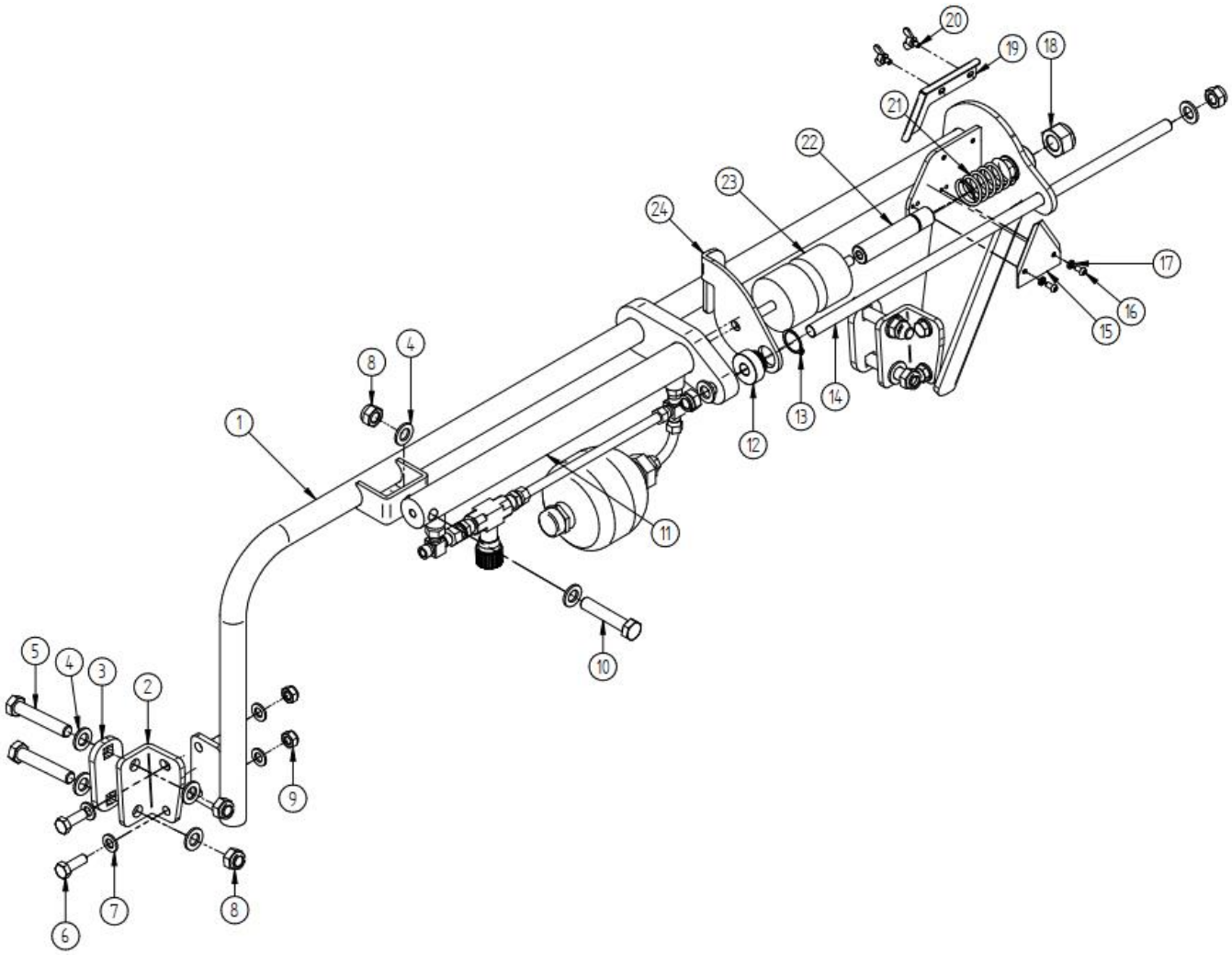
12.16 Film cut and hold, set



LEFT SIDE FRAME SET				
Item	**Part No.**	**Title**	**Quantity**	**Index/Section no.**
1	OW 04.01.00.00	Cut and hold frame	1	P810126
2	OW 04.00.00.01	Bend clamp, heavy-duty	1	P810120
3	OW 04.00.00.02	Heavy-duty clamp	1	P810121
4	Washer Φ 16	Washer Φ 16	12	T000460
5	Bolt M16x90 np.gw.	Bolt M16x90 np.gw.	4	T000785
6	Bolt M12x35	Bolt M12x45	4	T000756
7	Washer Φ 12	Washer Φ 12	8	T000458
8	Self-locking nut M16	Self-locking nut M16	7	T000294
9	Self-locking nut M12	Self-locking nut M12	4	T000291
10	Bolt M16x80 np.gw.	Bolt M16x80 np.gw.	1	T000784
11	Film cut and hold complete actuator	Film cut and hold complete actuator	1	T002719
12	OW 04.00.00.05	Guide sliding sleeve	1	P810124
13	Circlip Z30	Circlip Z30	1	T000410

14	OW 04.00.00.04	Guide	1	P810123
15	Blade1	Blade	1	T002786
16	Button screw M6x12	Button screw M6x12	2	T000940
17	Lock washer Φ 6	Lock washer Φ 6	2	T002773
18	Nut M24	Nut M24	1	T000290
19	OW 04.00.00.08	Blade guard	1	P810340
20	Wing bolt M6x10	Wing bolt M6x12	2	T000940
21	Spring	Spring	1	T000674
22	OW 04.00.00.06	Bumper pin	1	P810125
23	Rubber bumper	Rubber bumper	2	T000328
24	OW 04.00.00.03	Film scraper	1	P810122

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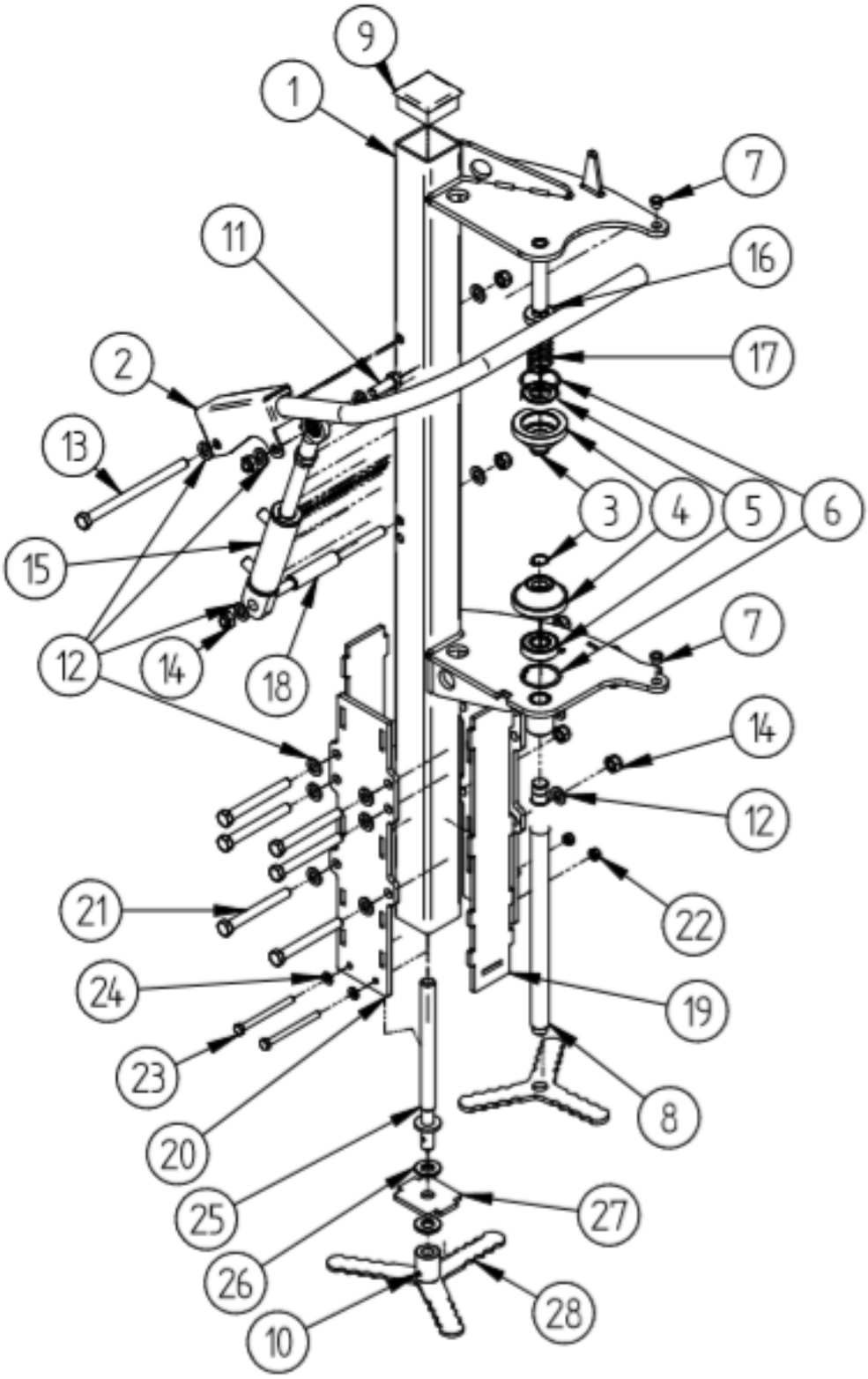
12.17 Dispenser post, set



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DISPENSER POST, SET				
Item	**Part No.**	**Title**	**Quantity**	**Index**
1	OW 05.01.00.00	Welded dispenser post	1	P810159
2	OW 05.02.00.00	Film puller arm	1	P810170
3	Circlip Z25	Circlip Z25	1	T000424
4	OW 05.00.00.09	Poppet	2	P810156
5	Poppet bearing	Poppet bearing	2	T000212
6	Circlip W62	Circlip W62	2	T000418
7	Sliding sleeve	Sliding sleeve	2	T002699
8	OW 05.04.00.00	Bottom pressure screw	1	P810177
9	Profile stopper	Profile stopper 80x80	1	T000967
10	Spring-type straight pin 6x45	Spring-type straight pin 6x45	1	T002777
11	Bolt M16x45	Arm upper bolt	1	T002565
12	Washer Φ 16	Washer Φ 16	20	T000460
13	Bolt M16x230 np.gw.	Bolt M16x230 np.gw.	1	T002409
14	Self-locking nut M16	Self-locking nut M16	12	T000294
15	Film scraper actuator	Film scraper actuator	1	T002756
16	OW 05.00.00.05	Spring washer Φ 50	1	P810332
17	Spring	Corner closing spring	1	T000674
18	OW 05.00.00.08	Arm actuator pin	1	P810155
19	OW 05.00.00.02	Plate of dispenser post 2nd clamp	2	P810150
20	OW 05.00.00.01	Plate of dispenser post 1nd clamp	2	P810149
21	Bolt M16x140 np.gw.	Bolt M16x140 np.gw.	6	T000776
22	Self-locking nut M10	Self-locking nut M10	2	T000292
23	Bolt M10x120 np.gw.	Bolt M10x120 np.gw.	2	T000774
24	Washer Φ 10	Washer Φ 10	4	T000456
25	OW 05.03.00.00	Pin M24	1	P810174
26	OW 05.03.00.07	Slide washer	2	P810154
27	OW 05.00.00.06	Dispenser post clamp bottom	1	P810153
28	OW 05.05.00.00	Welded handle	1	P810182

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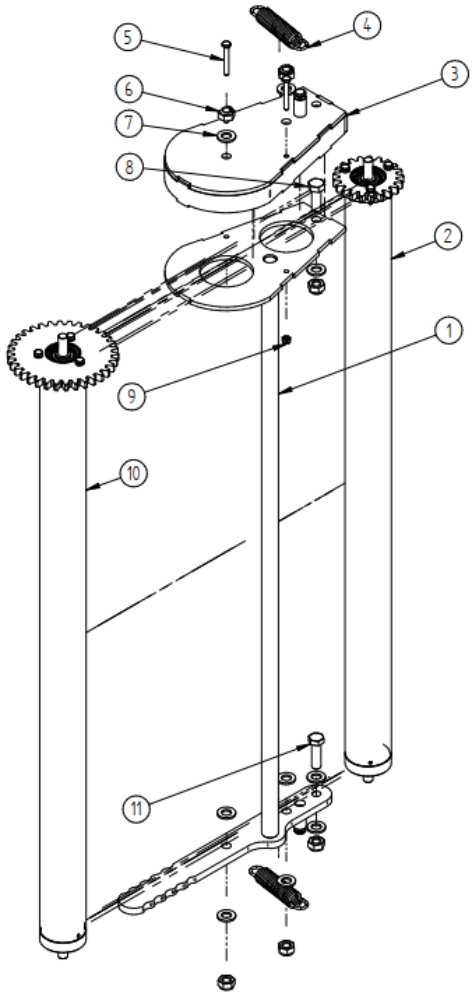
12.18 Film dispenser, set



FILM DISPENSER, SET				
Item	**Part No.**	**Title**	**Quantity**	**Index**
1	OW 06.01.00.00	Dispenser rack	1	P810185
2	OW 06.04.00.00	Dispenser roller No. 2	1	Size 11.21
3	OW 06.02.00.00	Gear cover	1	P810190
4	spring 5223/89-036/0	spring 5223/89-036/0	2	T000677
5	Bolt M6x45	Bolt M6x45	2	T000801
6	Nut M12	Nut M12	6	T000291
7	Washer Φ 12	Washer Φ 12	9	T000458
8	Bolt M12x35	Bolt M12x35	1	T000756
9	Nut M6 self-locking	Nut M6 self-locking	2	T000297
10	OW 06.03.00.00	Dispenser roller No. 1	1	Size 11.20
11	Bolt M12x40	Bolt M12x40	1	T000757

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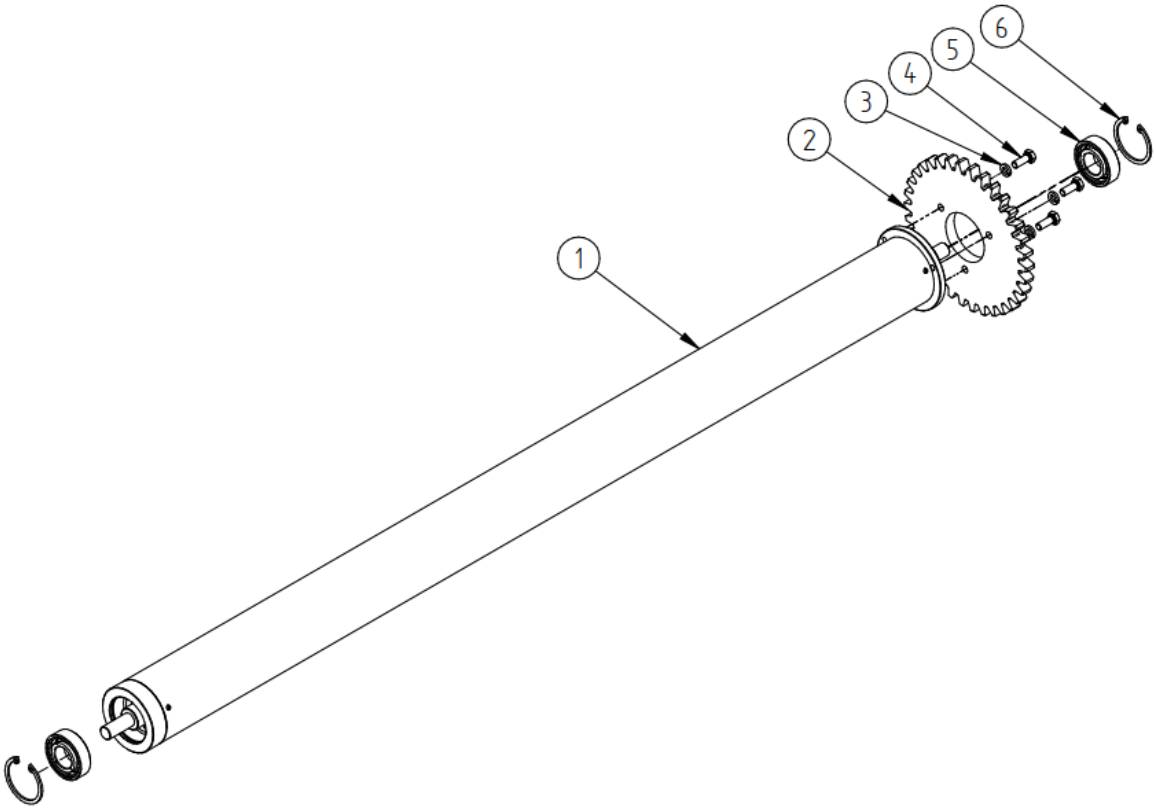
12.19 Dispenser roller No. 1



DISPENSER ROLLER NO. 1, SET				
Item	**Part No.**	**Title**	**Quantity**	**Index**
1	Dispenser roller	Dispenser roller	1	P810194
2	OW 06.03.00.05	Gear wheel, big	1	P810199
3	Lock washer Φ 6	Lock washer Φ 6	1	T002773
4	Bolt M6x16	Bolt M6x16	2	T000800
5	Bolt M6x45	Bearing	2	T000801
6	Circlip W42	Circlip W42	2	T002778

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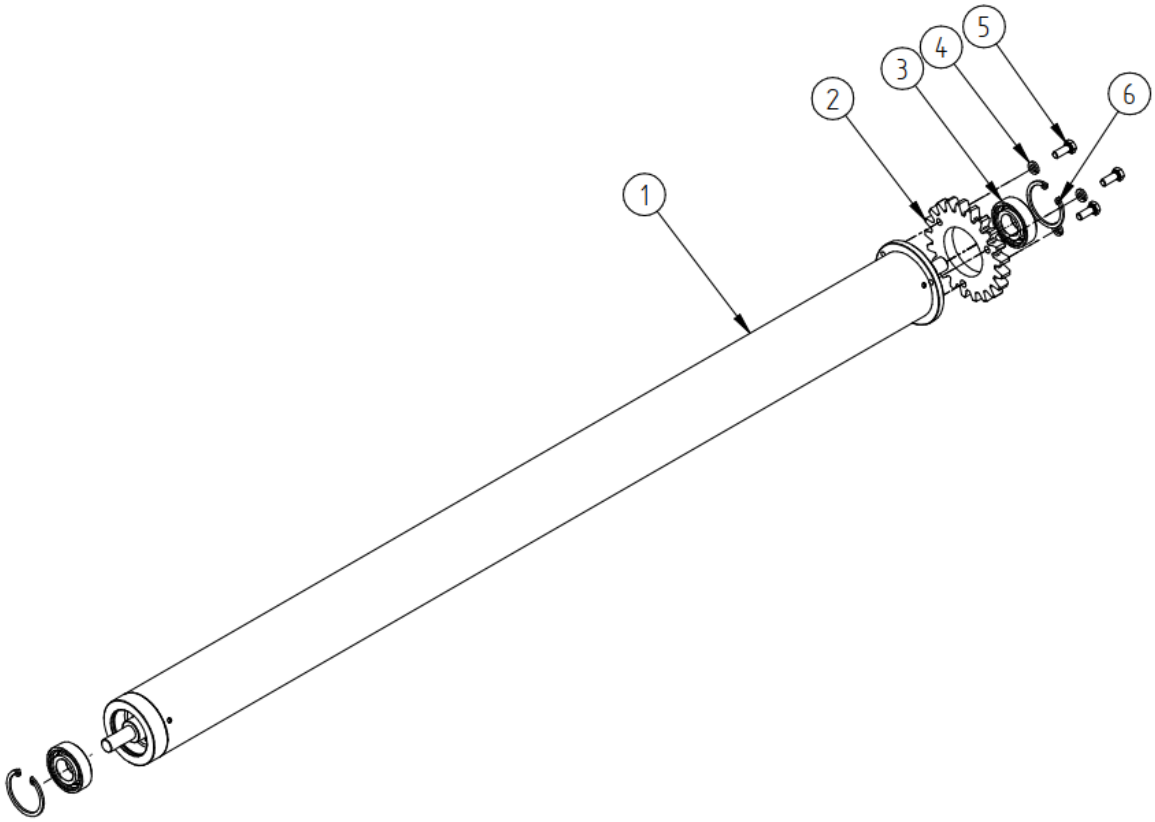
12.20 Dispenser roller No. 2



DISPENSER ROLLER NO. 2, SET				
Item	**Part No.**	**Title**	**Quantity**	**Index**
1	Dispenser roller	Dispenser roller	1	P810200
2	OW 06.04.00.01	Gear wheel, small	1	P810201
3	Lock washer Φ 6	Lock washer Φ 6	1	T002773
4	Bolt M6x16	Bolt M6x16	2	T000800
5	Bolt M6x45	Bolt M6x45	2	T000801
6	Circlip W42	Circlip W42	2	T002778

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12.21 Table rollers

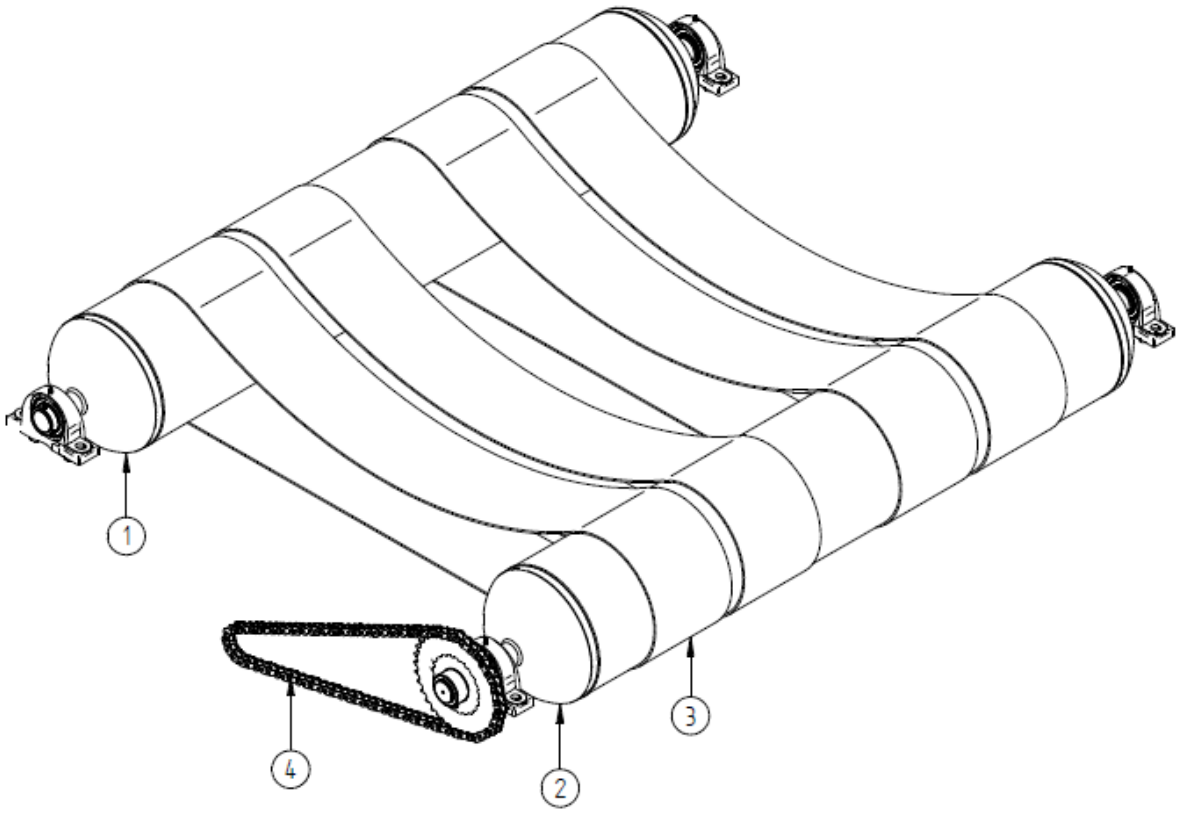

TABLE ROLLERS, SET				
Item	**Part No.**	**Title**	**Quantity**	**Index**
1	OW 07.01.00.00	Idle table roller, set	1	Chapt. 12.23.
2	OW 07.02.00.00	Driving table roller, set	1	Chapt. 12.23
3	Belt 3226x200x5	Rubber belt (conveyor belt)	4	T002625
4	12 B1 ¾ Chain	Drum drive chain	1	T000170

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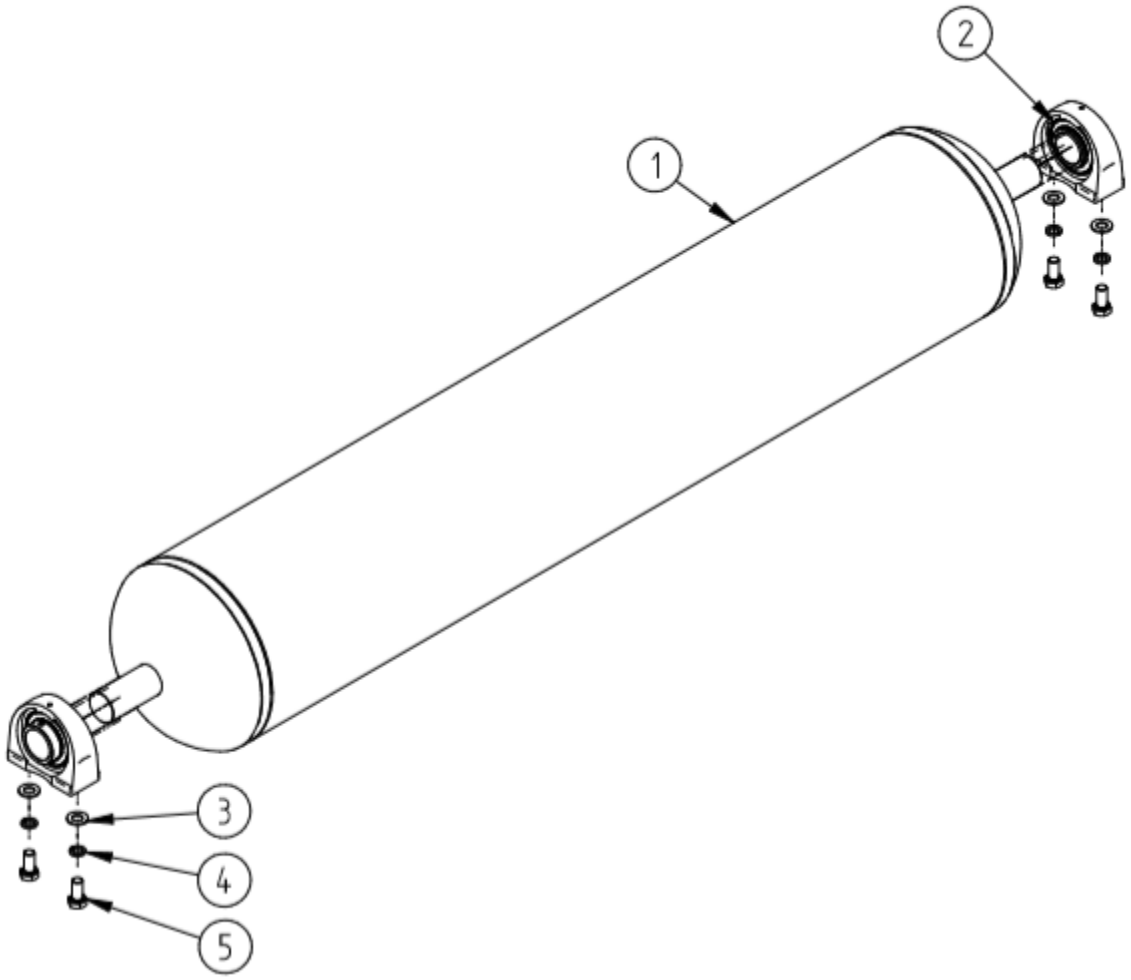
12.22 Idle table roller, set



IDLE TABLE ROLLER, SET				
Item	**Part No.**	**Title**	**Quantity**	**Index**
1	OW 07.01.01.00	Idle table roller	1	P810204
2	Table roller bearing (209)	Table roller bearing	2	T001012
3	Washer ϕ 14	Washer ϕ 14	4	T000459
4	Lock washer ϕ 14	Lock washer ϕ 14	4	T000452
5	Bolt 14x30	Bolt 14x30	4	T000765

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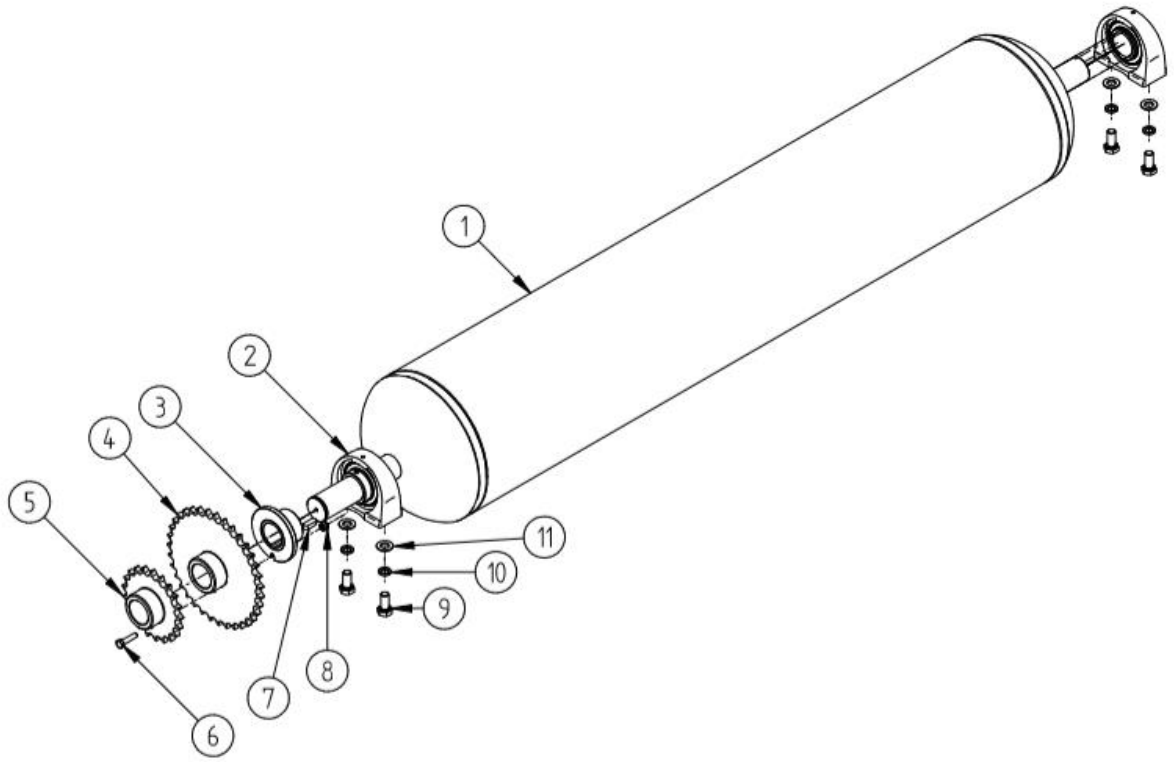
12.23 Driving table roller



DRIVING TABLE ROLLER, SET				
Item	**Part No.**	**Title**	**Quantity**	**Index**
1	OW 07.02.01.00	Driving table roller	1	P810213
2	Table roller bearing (209)	Table roller bearing	2	T001012
3	OW 07.03.00.00	Hub	1	P810338
4	OW 07.02.00.01	Gear wheel 3/4", Z21 (interchangeable with OW 07.02.00.02)	1	P810339
5	OW 07.02.00.02	Gear wheel 3/4", Z35 (interchangeable with OW 07.02.00.01)	1	P810223
6	Bolt M8x35	Bolt M8x35	1	T001369
7	Key 10x8x28	Key 10x8x28	1	T001118
8	Self-locking nut M8	Self-locking nut M8	1	T000256
9	Bolt 14x30	Bolt 14x30	4	T000765
10	Lock washer ϕ 14	Lock washer ϕ 14	4	T000452
11	Washer ϕ 14	Washer ϕ 14	4	T000459

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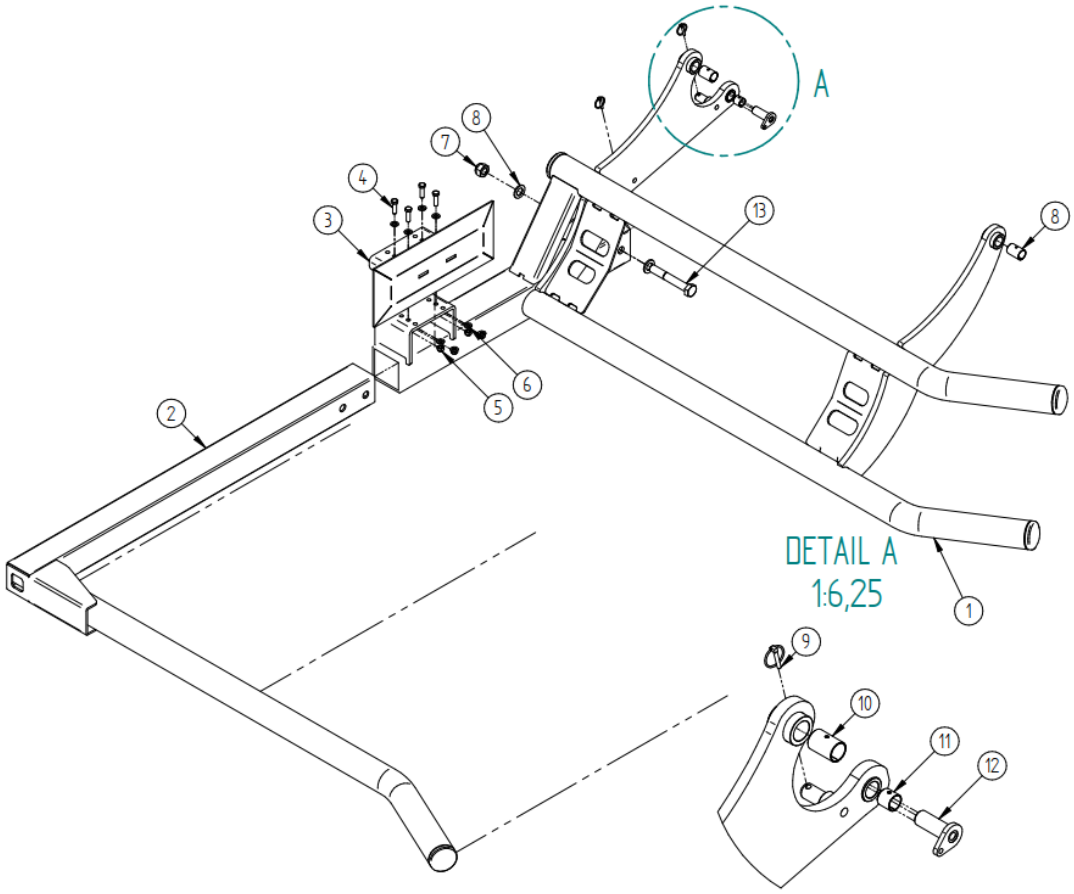
12.24 Bale grab, set



BALE GRAB, SET				
Item	**Part No.**	**Title**	**Quantity**	**Index**
1	OW 08.01.00.00	Grab arm	1	P810226
2	OW 08.02.00.00	Adjustable arm	1	P810238
3	OW 08.03.00.00	Buffer	1	P810243
4	Bolt M12x40	Bolt M12x40	4	T000757
5	Self-locking nut M12	Self-locking nut M12	4	T000291
6	Washer Φ 12	Washer Φ 12	8	T000458
7	Self-locking nut M24	Self-locking nut M24	1	T000290
8	Washer Φ 25	Washer Φ 25	2	T000464
9	Locking pin	Locking pin 6.0*27/32	2	T000986
10	Grab sliding sleeve	Grab sliding sleeve	2	T002782
11	Grab actuator sliding sleeve	Grab actuator sliding sleeve	1	T002587
12	OW 01.10.00.00	Grab actuator pin	1	P810325
13	Bolt M24x160 np.gw.	Bolt M24x160 np.gw.	1	T000797

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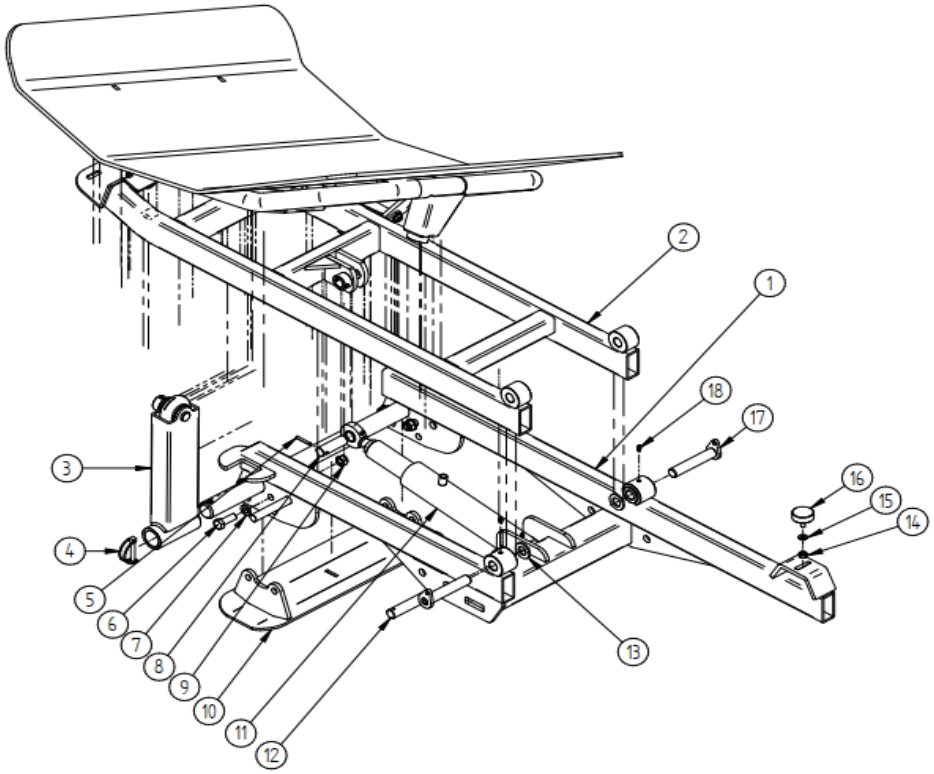
12.25 Bale tipper, set



BALE TIPPER, SET				
Item	**Part No.**	**Title**	Quantity	**Index**
1	OW 09.01.00.00	Outer frame	1	P810251
2	OW 09.02.00.00	Tipper cradle, set	1	Size 11.27
3	OW 09.04.00.00	Adjustable arm, set	1	P810305
4	Adjustable arm locking pin	Adjustable arm locking pin	1	T000990/2
5	Spring-type straight pin 6x45	Spring-type straight pin 6x45	2	T002777
6	Bolt M16x45	Bolt M16x45	4	T002565
7	Washer ϕ 16	Washer ϕ 16	8	T000460
8	OW 09.00.00.01	Actuator pin, short	1	P810249
9	Nut M16 self-locking	Nut M16	4	T000294
10	OW 09.03.00.00	Bale tipper resistance	1	P810302
11	Bale tipper actuator	Bale tipper actuator	1	T002687
12	OW 09.00.00.02	Actuator pin, long	2	P810248
13	Tipper nylon washer	Tipper nylon washer	2	P810154
14	Nut M10 self-locking	Nut M10 self-locking	1	T000292
15	Washer ϕ 10	Washer ϕ 10	1	T000456
16	Vibration damper 50x18	Vibration damper 50x18	1	T000011
17	OW 09.05.00.00	Tipper pin	2	P810225
18	Grease nipple M6	Grease nipple M6	2	T000645

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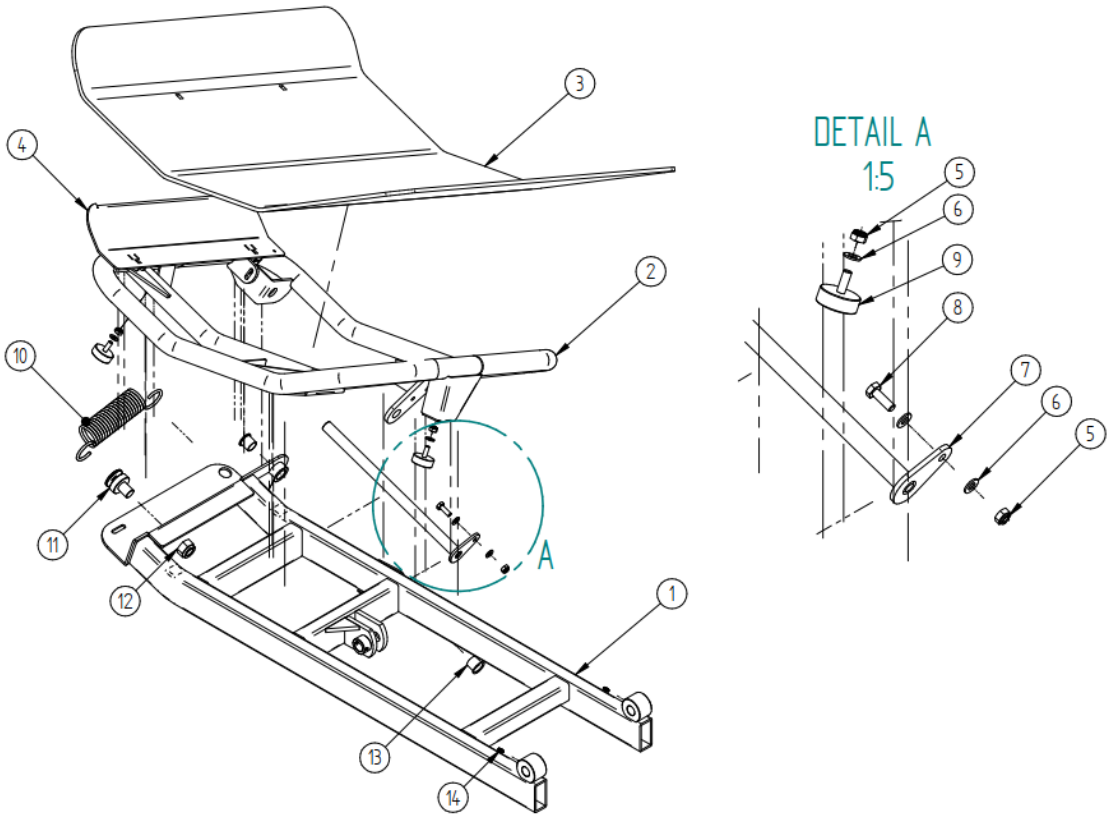
12.26 Tipper cradle, set



TIPPER CRADLE, SET				
Item	**Part No.**	**Title**	Quantity	**Index**
1	OW 09.02.01.00	Tipper slide base	1	P810269
2	OW 09.02.02.00	Cradle frame	1	P810283
3	OW 09.02.00.02	Sheet	1	P810268
4	OW 09.02.04.00	Cradle corner	1	P810300
5	Nut M 10 self-locking	Nut M 10 self-locking	3	T000292
6	Washer ϕ 10	Washer ϕ 10	4	T000456
7	OW 09.02.03.00	Cradle pin	1	P810297
8	Bolt M10x30	Bolt M10x30	1	T000741
9	Vibration damper 50x21 D	Vibration damper 50x21 D	2	T000011/T002706
10	Tension spring fi6xfi60x250_r	Tension spring fi6xfi60x250_r	1	T000661
11	OW 09.02.00.01	Spring pin	1	P810267
12	Nut M24 self-locking	Nut M24 self-locking	1	T000290
13	Cradle pin sliding sleeve	Cradle pin sliding sleeve	2	T002785
14	Grease nipple M6x1	Grease nipple M6x1	2	T000645
15	Carriage bolt M12x60	Right sheet fixing M12x60	1	T000829
16	Carriage bolt M12x80	Left sheet fixing M12x80	1	T002961

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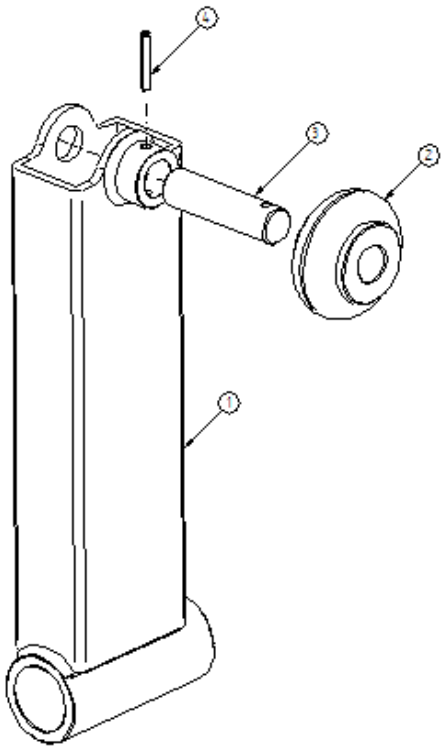
12.27 Adjustable arm, set



ADJUSTABLE ARM, SET				
Item	**Part No.**	**Title**	Quantity	**Index**
1	OW 09.04.01.00	Adjustable arm	1	P810308
2	OW 09.04.00.02	Arm disc	1	P810307
3	OW 09.04.00.01	Arm disc pin	1	P810306
4	Spring-type straight pin fi8x40	Spring-type straight pin fi8x40	1	T000083

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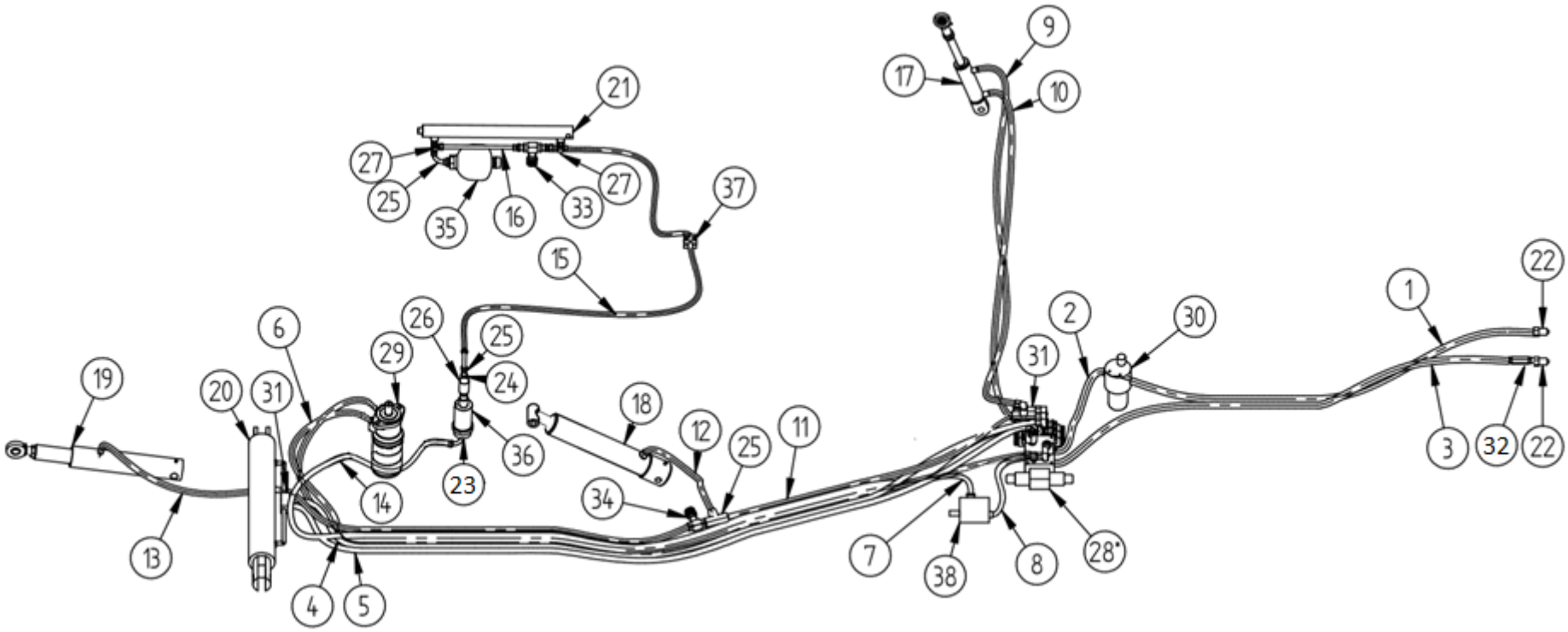
12.28 Hydraulic system



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Hydraulic system				
Hoses:				
Item	**Description**	**Title**	**Quantity**	**Index**
1	P51/P51 22x1.5 2SN DN13 L-2380	Power supply cable	1	T002709
2	P51/P51 22x1.5 2SN DN13 L-1000	Filter hose	1	T002905
3	P51/P51 22x1.5 2SN DN16 L-3000	Return hose	1	T002707
4	P51/P52 18x1.5 2SN DN10 L-2350	Bale grab hoses	1	T002708
5	P51/P52 18x1.5 2SN DN10 L-2500	Bale grab hoses	1	T002917
6	P51/P52 18x1.5 2SN DN10 L-2970	Hydromotor return hoses	1	T002710
7	P51/P52 18x1.5 2SN DN10 L-2700	Hydromotor supply hoses	1	T002902
8	P51/P52 18x1.5 2SN DN10 L-340	Regulator cable	1	T002903
9	P51/P52 18x1.5 2SN DN10 L-1930	Scraper return hoses	1	T002714
10	P51/P52 18x1.5 2SN DN10 L-1760	Scraper supply hoses	1	T002715
11	P51/P51 18x1.5 2SN DN10 L-570	Tipping hose	1	T002716
12	P51/P52 18x1.5 2SN DN10 L-730	Tipping actuator hose	1	T001246
13	P51/P52 18x1.5 2SN DN10 L-2550	Tipper actuator hose	1	T002717
14	P51/P52 18x1.5 2SN DN10 L- 3050	Cut and hold hose	1	T002904
15	P51/P52, 18x1.5/16x1.5 DN8 L-2110	Cut and hold actuator hose	1	T000523
16	P51/P51 18x1.5 1SN DN8 L-280	Hydro-accumulator hose	1	T002732
Actuators:				
17	SMT2TL.40.25.130-00	Scraper actuator	1	T002756
18	ST2TL.650-01	Tilt actuator	1	T002597
19	SMN2TL.50.250-00	Bale tipper actuator	1	T002687
20	SMT1TL.90.50.440-00	Grab actuator with lock	1	T002598
21	SMT1TL.32.20.400-00	Cut and hold actuator	1	T002719
Connections:				

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22	Quick release coupling 12.5 M18*1.5	Quick release coupling (Euro)	2	T000995
23	Connector G1/4” – M18x1.5	Straight connector	1	T000580
24	Connector G1/4”-M16x1.5	Straight connector	1	T000583
25	Connector AB G1/4” – M16x1.5	Angle connector	1	T001026
26	SJ90 -04 ¼’’ BSP D18	Rotary joint	1	T002636
27	DN-147 M18*1.5 12L	T-connection	4	T001045
		Other:		
28	4-section BH-42861400	Manifold	1	T002779
29	ZBMR-200	Hydromotor	1	T002686
30	HD 069-168 OD1	Filter	1	T002780
31	VBPSE 3/8L4VIE	Lock	2	T001451
32	VU ¾’’	Directional valve	1	T001006
33	VURF 140	Throttling valve	1	T002740
34	VRFB90° 3/8”	Throttling valve	1	T000994
35	V-0,75 [l], 75 [bar]	Hydro-accumulator	1	T002739
36	OW 02.02.01.00	Pin OW	1	P810137
37	Clamp	Clamp	1	T000316
38	SB-B2-0103AL	Flow controller	1	T002697

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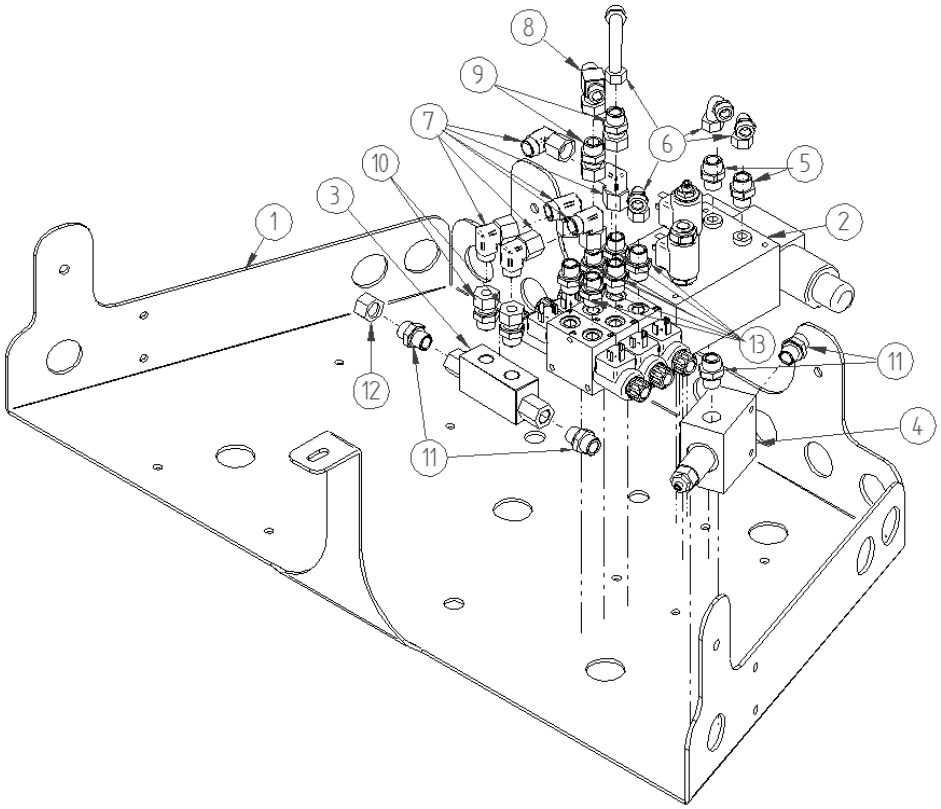
12.29 Manifold



Item	Description	Title	Quantity	Index
1	OW 01.00.00.09	Manifold fixing	1	P810072
2	Hydraulic manifold block	Manifold	1	T002779
3	Controlled non-return valve	“Lock”	1	T001451
4	SB-B2-0103AL	Regulator	1	T002697
5	Straight coupling G1/2’ / M18x1.5 (BB)	Straight coupling	2	T000578
6	M18x1.5 (AB)	Curved connector	2	T002730
7	Elbow coupling M18x1.5 (AB)	Elbow coupling	6	T001032
8	T-connection M18x1.5 (BAB)	T-connection	1	T002900
9	M18x1.5 (AB)	Straight connector	2	T002731
10	G3/8’ / M18x1.5 (BA)	Straight connector	2	T000577
11	G3/8’ / M18x1.5 (BB)	Straight coupling	4	T000582
12	Stopper M18x1.5	Stopper	1	T001467
13	G1/4’ / M18x1.5 (BB)	Straight coupling	6	T000580
14	G3/4’ / M22x1.5 (BB)	Straight coupling	4	T000581

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12.30 Electronic components

Item	Description	Title	Quantity	Index
1	Wrapper control system	Automatic control system	1	T002812
2	Power cable with connector: 3-pin COBO type, and connection to the cigarette lighter socket	Set of controller power cables	1	P810098
3	10A fuse for the command unit	10A fuse	1	T001004
4	Inductive Sensor	Sensor	6	T001137
5	Road lighting set	Set of rear LED lights	1	T001016

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13. Warranty

WARRANTY CERTIFICATE

Serial No.	……	Type	……
Year of manufacture	……	Quality Control (KJ)	……

Under the warranty, the manufacturer undertakes to repair, free of charge, any physical defects revealed during the warranty period, i.e. 12 months from the date of sale.
The manufacturer will be exempt from liability under the warranty in case of:

- Mechanical damage of the machine, which occurred after it was delivered to the user;
- Use of the machine against its intended use;
- Use of the machine by persons unfamiliar with this Instructions Manual;
- Improper use, maintenance, storage of the machine, in particular, if not compliant with the Instructions Manual;
- Execution of any repairs by unauthorised persons and without the consent of the manufacturer for their execution;
- Implementation of any design modifications without the consent of the manufacturer.

The warranty certificate is valid if it has the signature of the seller, and the date of sale confirmed by the official stamp of the dealer. It must not contain deletions and amendments made by unauthorised persons.
A duplicate of the warranty certificate may be issued upon a written request after a presentation by the user of the proof of purchase.
In the case of an unjustified service call to warranty repair, the related costs will be borne by the user. The user will report any complaints immediately after the damage has occurred, directly to the dealer or manufacturer.
The manufacturer will carry out warranty repairs within 14 days from the date of the complaint. The guarantee will be extended by the repair time counted from the date of the complaint submission until the date of completion of the service if the defect prevents the use of the machine.
The warranty does not cover standard wear and tear of parts such as: bearings, fasteners, hydraulic hoses, rubber elements.

Date of sale: _____ _____

(Day, month, year) (Signature and stamp of a dealer)

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14. List of warranty repairs

Filled in by the manufacturer

Date of complaint submission: ________________ *Scope of repair and parts replaced:* _________ _____________________________________ _____________________________________ _____________________________________ *Date of complaint resolution:* _______________ *Warranty extended until:* ____________ ________________________ *(signature and stamp of the service)*	*Date of complaint submission:* ________________ *Scope of repair and parts replaced:* _________ _____________________________________ _____________________________________ _____________________________________ *Date of complaint resolution:* _______________ *Warranty extended until:* ____________ ________________________ *(signature and stamp of the service)*
Date of complaint submission: ________________ *Scope of repair and parts replaced:* _________ _____________________________________ _____________________________________ _____________________________________ *Date of complaint resolution:* _______________ *Warranty extended until:* ____________ ________________________ *(signature and stamp of the service)*	*Date of complaint submission:* ________________ *Scope of repair and parts replaced:* _________ _____________________________________ _____________________________________ _____________________________________ *Date of complaint resolution:* _______________ *Warranty extended until:* ____________ ________________________ *(signature and stamp of the service)*

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15. Warranty form

WARRANTY FORM NO. ……

Full name :…..

Address :.....

Postal code
:…….....

City :…….....

Telephone
number:…….....

E-mail address :…….....

Complaint submission method:……..……..

Name of the subject of complaint: .....

Name of the dealer :…….…….....

Proof of purchase - VAT invoice No. .....dated .....20……..

Description of fault / damage:…….....

.....

.....

The agreed date for the complaint resolution:…….....

Method and time of the complaint resolution :…….……..

……...

……...

Date the fault occurred / was discovered: .....20.....

.....

Date, full name

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16. Declaration of Conformity

Manufacturer:

TALEX Spółka z ograniczona odpowiedzialnością
Spółka komandytowa
ul. Dworcowa 9c

77-141 Borzytuchom

Hereby declares that the machine:

Machine name: **Self-loading bale wrapper**

Machine model: SPRINTER 1500

Serial number: .....

to which the declaration refers, meets the requirements of:

DIRECTIVES:

Machinery Directive 2006/42/EC of 17 May 2006 (Official Journal L 157 of 9.06.2006, p. 24)

and its amendment 2009/127/EC of 21 October 2009 (Official Journal L 310 of 25.11.2009, p.29).

HARMONISED STANDARDS:

Standard number:	Standard title:
PN-EN ISO 4254-1/2006	Agricultural machinery – Safety – Part 1: General requirements
PN-EN 15811/2009	Agricultural machinery. Guards for moving parts of power transmission. Guard opening with tool
PN-EN 953/2009	Safety of machinery. Guards. General requirements for the design and construction of fixed and movable guards
PN-ISO 4413/2005	Hydraulic drives and control General rules for systems.
PN-EN 12100/2010	Safety of machinery General principles for design Risk assessment and risk reduction
PN-ISO 11684/1998	Safety signs and hazard pictorials

TALEX INSTRUCTIONS MANUALS

- .....

This declaration of conformity shall cease to be valid if the machine is modified in any way without the consent of the Talex Sp. z o.o.

Conformity with the requirements of the directives and standards has been ascertained based on the tests conducted by:

.....

The tests were carried out by: Zbigniew Myszka, M.Sc. Eng. – expert of the Association of Polish Mechanical Engineers & Technicians No. 9763/11

Borzytuchom, ... Karol Jaworski

place, date Full name, the signature of the authorised person