1314 Union St
West Springfield, MA 01089

Phone: 413-736-5462

Email: info@jswoodhouse.com
Website: www.jswoodhouse.com

INSTRUCTION MANUAL

SPARE PARTS CATALOGUE

WARRANTY

		
Round bale gripper – light CHL type	Round bale gripper – heavy CHS type	Rectangular bale gripper CHK type

CE

Bytów 2013

Edition 01

NOTE!

Please read this Instruction Manual before you start operating the machine and observe all safety rules contained herein.

The Instruction Manual constitutes the basic equipment of the machine!

Please keep this Instruction Manual in a safe place within easy reach of the user and the operator during the whole period of machine use.

In case this manual is lost or damaged, you should purchase the new copy, by placing an order in the point of sale or at the machine's manufacturer.

In case of the machine is resold or made accessible to a third party, you should enclose the Instruction Manual together with the Declaration of Conformity for the machine.

Table of Contents

1. Introduction

It is strongly recommended to read and understand this Instruction Manual before starting operation of the gripper and observe all recommendations contained herein.

NOTE!
Read this Instruction Manual
Before starting up of use the gripper

This Instruction Manual contains descriptions of all risks which may occur when you do not observe safety rules during gripper work and operation. In this Instruction Manual safety precautions which should be undertaken in order to minimize or avoid the risks are listed.

This Instruction Manual also contains the rules of proper gripper use and explains what service procedures connected with it should be made.

If any information given in this Instruction Manual is incomprehensible, please ask directly the manufacturer for an explanation.

NOTE!
This symbol warns about the risk.
This warning symbol indicates an important information given in Instruction Manual concerning the risk. Please read this information carefully, comply with the instructions and act with due caution.

2. Operating safety rules

2.1 User safety

The gripper may be operated exclusively by adults who have familiarized themselves with its operation and who have read this Instruction Manual and have suitable qualifications. When operating the gripper you should take all safety precautions, in particular:

- Observe general regulations relating to health and safety at work as well as the recommendations included in this Instruction Manual.
- Follow the safety instructions of the warning symbols attached to the machine.
- Never permit other persons than the operator to drive the vehicle which operates the gripper and do not allow other people to stay in the vehicle or on the machine during its operation.
- The gripper may be operated only by a person who is authorized to drive a vehicle with the gripper attached, in accordance with the manufacturer's recommendations.
- The work-stand of the operator during work with the gripper is the cabin of the vehicle to which the gripper is attached.
- Please remember that there are a lot of places which can cause personal injury (sharp edges, protruding construction elements etc.) on the gripper. When operating the gripper you should be particularly careful when you come near the above critical places, and you absolutely must use personal protective equipment, such as:
    - protective clothing,
    - protective gloves,
    - protective shoes
- Transport of persons and objects other than bales the gripper is intended for is strictly forbidden.
- It is forbidden to operate the gripper by unauthorized persons who have not read this Instruction Manual.
- An operator who operates the gripper outside the working place should be equipped with first-aid-kit containing first aid measures together with instructions of their use.
- When working with loose materials it is necessary to wear protective clothing suitable for the material being transported, in particular: rubber boots, gloves, overall, cap and half-mask.
- In case of poisoning or infection you should immediately contact the physician.
- When you drive the vehicle with the gripper not operated you should keep safety transport clearance – min. 1 ft.
- Transport speed should be adjusted to the condition of road surface.

- When working on company's area you should use outline electric lighting of the vehicle and warning signaling device (yellow), and check their working order, cleanness and visibility. You should attach in a visible way a triangular plate distinguishing slow-moving vehicles on a machine or in the rear of the vehicle. Reflective light and warning signs placed on machine's construction elements should be kept clean and visible.
- In order to keep suitable control, the gripper should be adjusted to the vehicle in accordance with the recommendations of both the vehicle and the gripper manufacturers as well as the suspension used. Manufacturer's clamping rules are described in chapter 5.1. Gripper assembly.
- Please remember that the load of every axle of the vehicle with the gripper being attached and operated must not be lower than 20% of the vehicle's gross weight.
- Never leave the vehicle with the gripper attached on slopes or other terrain inclinations without protecting it against self-rolling downwards. The gripper should be lowered on the ground. You should place wedges under the vehicle wheels.
- Before you start any activity connected with preparation, assembly, disassembly or adjustment you should stop the engine, switch off the drive, make the vehicle immobile and wait until all moving parts of the machine stop.
- After the first hour of operation you should check the condition of all temporary fastenings, e.g. bolted joints.
- During gripper assembly and disassembly you should take care and be careful about construction elements responsible for fastening it with the vehicle.
- Before you start working with the gripper you should check its technical condition as well as of a vehicle working with it. The vehicle and the gripper unit must be in good technical condition. Worn and damaged parts should be immediately replaced with the new ones.
- The gripper must be equipped with all protective shields (if they are provided by the manufacturer) which protect against accessing to movable parts. The protective covers shall be complete and
  in good working order.
- Weight of the gripper suspended on a vehicle may affect vehicle's manoeuvrability. In such a situation great caution should be exercised.
- Keep this Instruction Manual accessible near the gripper. When you loan the gripper you should hand it over in good working and technical condition along with the Instruction Manual.
- Before you start working you should prepare the gripper in accordance with the recommendations given in section: 5. The gripper operation, gripper assembly.
- Lashing additional transport means to the gripper is strictly forbidden.
- Transport, moving with gripper attached on public roads is forbidden.

- When you start working with the gripper for the first time, you should check its functioning.
- Assembly protections of the gripper bolts, should be only done with the use of typical protection means in the form of cotter pins. Work with other protective means is forbidden.
- On account of natural wear of materials you should obey recommendations described in chapter 6. Service and maintenance procedure steps.
- Before you start to work, you should pay special attention to the condition of the gripper hydraulic system. The cylinder, hydraulic piping and connections must be tight. Worn and damaged parts should be immediately replaced with the new ones.
- During operation the hydraulic piping is under high pressure. Assembly and disassembly of the gripper hydraulic system with the vehicle should only be done with the vehicle engine turned off, with hydraulic pressure in the gripper and vehicle hydraulic systems released.
- Upon receiving and transport of the grab check its technical condition, whether it is not damaged.
- Staying under the raised gripper is forbidden, there is a risk of being crushed by construction elements or transported materials.
- Operator of the vehicle which works with the gripper must pay attention that **no one approaches the gripper or stays close to it during vehicle in operation**.
- Don't put fingers and limbs between construction elements of the gripper while making adjustments or overhaul.
- During turning or reversing, manoeuvring with the gripper, you should ensure suitable visibility for yourself or look for help of a properly trained person.
- It is forbidden for operating personnel to stay between the vehicle and the gripper when the vehicle's engine is operating.
- Work on the slopes exceeding 8% is inadmissible.
- During working on slopes you should act with great caution.
- Pay special attention during vehicle turns and manoeuvres with suspended gripper, both during transport and while reversing, especially when people, animals or any objects are close to the vehicle.
- The vehicle operating with the gripper should have cabin certified against falling objects and additional safety cabin for the operator.
- Never leave the vehicle with the engine operating. Before you leave the driver's seat you should lower the gripper on the ground, turn off the vehicle engine, take out the ignition key, operate the hand parking brake.
- Do not wear unbuttoned or loose-hanging clothes while working, assembling, disassembling or making adjustments. Keep them away from construction elements as they may be caught by them.

- The gripper should be disconnected from the vehicle not earlier than after turning the vehicle engine off and taking out the ignition key.
- After finishing work it is recommended to clean and wash the gripper in washing stand fitted with sewage treatment or sediment trap to neutralize waste water.
- The gripper should be stored on flat, paved surface under a roof, in places protected against unauthorized persons and animals, and in a way eliminating the risk of accidental injury.
- In case of failure you should immediately disconnect the drive transmitted from the vehicle.
- The gripper operation by people under an influence of alcohol, drugs or other narcotics is strictly forbidden.
- All service procedures, which need a servicing person to stay near the gripper should be done only with the gripper lowered on the ground and with the vehicle engine turned off.
- The gripper control may be done only from the vehicle cabin, to which the gripper is connected and after taking the seat by the operator.

Failure to follow the above instructions could cause a risk for the operator and unauthorized persons, as well as damage the grab.
The user bears responsibility for damages resulting from the lack of observing the above rules.
The gripper is not foreseen to travel on public roads –
the gripper transport on the tractor's suspension system
on public roads is forbidden.

2.2. Safety signs placed on the gripper

Sign	*Description*	*Place of attaching*
	Note! General warning sign Warning - a risk of danger	Machine cover Instruction Manual
	Warning against crushing	Machine cover
	Read instruction	Instruction Manual
	Wear protective overall	Machine cover Instruction Manual
	Movable parts of the machine	Machine cover
	Ban on staying under load	Machine cover
	Ban on transporting persons on transport devices	Machine cover
	Ban on repairing the device when it is in motion	Machine cover
	Ban on lubricating the device when it is in motion	Machine cover

2.3. Risks occurring during gripper operation

No.	*Risk*	*Source of risk (cause)*	*Possible causes of the risk*	*Precautions*
1	Excessive strain of the motor system (physical strain)	Work in standing, forced bent over position, walking, sliding	Motor system diseases, backbone injuries, strained tendons	Familiarize with Instruction Manual, training at the work station with a consideration of lifting standards during manual transport works, proper weight lifting techniques, using other person's help, devices which make moving easier e.g. hoist, hoisting winch
2	Falling down (stumbling, slipping etc.)	Uneven ground, mess – lying and standing objects, communication roads obstructed, slippery surfaces of the silos	Bruising, dislocations, joint sprains, bone fractures, injures	Suitable protective shoes, even foundation, focused attention, keeping order, familiarizing with the Instruction Manual
3	Hitting on fixed, protruding and sharp machine parts	The machine and its environment	Body injures, bruising, bumps, bruises, cuts	Proper placing of the machine, safe space to move around, proper organization of work, focused attention, use personal protective equipment – protective helmet, gloves, familiarizing with the Instruction Manual
4	Hitting by moving objects	Loose materials, fodders, accidental turf parts, silage falling down from the machine during transportation.	Bruising, cuts	Focused attention, marking of dangerous zone, ban on moving nearby working machine, ban on staying under suspended weight - raised machine, wearing personal protective equipment – protective helmet, glasses, familiarizing with the Instruction Manual
5	Sharp, dangerous edges	Protruding machine construction parts, use of manual tools	Finger and hand injuries, scratches, Catching loose clothes on protruding parts	Personal protective equipment – protective gloves, working uniform buttoned up, focused attention
6	Movable machine parts	Movable machine elements, sliding piston rods of hydraulic cylinders, lack of movable parts shielding	Dragging in, limb injures, crushing of fingers and palms	Ban on moving nearby working machine, focused attention, use of movable part shieldings, familiarizing with the Instruction Manual
7	Suspended and standing machine weight, loaded machine weight, load weight	Improper assembly, aggregation, bad positioning of the machine, improper organization and operation, leaving the suspended machine on tractor, improper loading of transported fodder	Bruising, feet and palms crushing	Focused attention, ban on staying under suspended weight - raised machine, using personal protective equipment - safety boots, safety gloves, helmet, safe placing of the machine, using other person's help, using jacks, cranes, familiarizing with the Instruction Manual. Proper, safe organization of work.
8	Micro-climate – changeable atmospheric conditions	Work done in differential weather conditions	Overheating (thermal shock), sun burnings	Suitable protective clothing, beverages, creams with filters, taking breaks, familiarizing with the Instruction Manual, vehicle cabin ventilation
9	Noise	Too high revolutions of the vehicle engine, damaged, loose vibrating parts of the machine	Irritation, lack of concentration, neurosis	Work with the vehicle and the machine in good working order, routine maintenance, proper vehicle engine revolutions, familiarizing with the Instruction Manual

3. Intended use of the machine

Grippers fitted on machine and vehicle holders are designed for loading, unloading, collection, storing of fodders, wastes, and transporting them on closed company's area. They perform best in case of bales having diameters from 31,50 – 66,90 inch.

The gripper assembly to the vehicle is possible with the use of the following fastenings: TUZ I, TUZ II, TUZ III, EURO, SMS, ISO. The machine performs perfectly well after being fitted on all frontal loaders of TUR type. The clamping system should be chosen in accordance with User Manual of the vehicle and the gripper.

The working element is the gripper jaws, which due to their design, allow for easy gripping of material and its transport. All types of grippers have hydraulic control system which after connecting it enables smooth control of their operation from the vehicle operator's cabin.

Meeting the requirements concerning machine use, servicing and repairs in accordance with the manufacturer's recommendations and strict observance of them is the condition of intended use of the machine. The gripper should be used, operated and repaired exclusively by the persons who know its characteristics and are familiarized with health and safety at work rules.

The manufacturer has a wide choice of grippers and other equipment, which make transport easier. The manufacturer also offers specialist consultancy concerning the choice of suitable equipment for customer's needs.

All cases of lack of clarity concerning the machine intended use, should be cleared with the grippers manufacturer. Proper choice of the machine and awareness of its intended use will rise safety at work.

4. Machine description

Fig.1 General view of the machine. Round bale gripper – light CHL type

The hydraulic driven grippers are adapted to work with a vehicle which has power hydraulic system as a standard of the rear and front fastenings used in agricultural vehicles.

Basic tool fastening systems used in the case of grippers are as follows:

- TUZ I, TUZ II, TUZ III, TUZ IV type of hitch
- EURO type of hitch
- SMS type of coupling
- ISO type of coupling

Each gripper is built of three articulated main construction elements. The first element – **frame** is made of steel sections and thick steel plate made by laser cut method, welded to form a stiff frame. The second and third element – **arms** are the movable parts of the gripper. They are made of steel elements jointed by welding. Their construction is adapted to the shape and size of bales to be transported. It provides secure and safe grip. The hydraulic system which after being connected to the vehicle is controlled from the operator's cabin allows for smooth work of the arms in required range.

4.1. Equipment and accessories

4.1.1. Basic

Basic equipment of the gripper includes:

- Hydraulic control system with power hydraulic system piping and hoses
- Instruction Manual
- Warranty card

Portable warning-lighting device and triangle marking plate for slow-moving vehicles do not belong to the basic equipment of the grippers. You can buy them at the manufacturer and in the agricultural machines depot for an additional cost. Each user of the gripper should have a warning-lighting device in good working order and a triangle marking plate for slow-moving vehicles. Ignoring their use during transport and work can result in accident. The machine user is responsible for damages resulting from an accident.

4.1.2. Auxiliary equipment

1. Linch pin, cotter pin, clip ø 10,5

Note:
ALL ELEMENTS OF AUXILIARY EQUIPMENT OF THE GRIPPER MAY BE BOUGHT AT THE MANUFACTURER FOR ADDITIONAL COST.

4.2. Technical specification

Table No. 1 TECHNICAL DATA of **GRIPPERS**

No.	*Specification*	*Unit of measure*	*Parameter*		
1.	Gripper type	-	CHL	CHS	CHK
2.	Machine type	-	Suspended of medium class		
3.	Overall dimensions				
	Length	[inch]	40	40	40
	Width	[inch]	47	47	47
	Height	[inch]	33	33	33
4.	Weight	[lb]	330	396	550
5.	Operating range - arms spread	[inch]	31–64	31 - 85	26 - 81
6.	Arms setup control	-	Hydraulic control system		
7.	Gripper's load capacity - max.	[lb]	2204*		
8.	Hydraulic adjuster type	-	GRENE		
9.	Hydraulic cylinder type	-	BARTEX		
10.	Hydraulic system working pressure	PSI /[bar]	1450 – 2750 / 10 - 19		
11.	Transport clearance	[inch]	11.8		
12.	Transport speed	[mph]	2.5 - 5		
13.	Number of personnel	[person]	1		
14.	Vehicle power demand	[HP]	from 48		

*) – *assuming permissible load capacity of vehicle lifting system*

4.3. Forces acting on the gripper

Extreme phenomena occurring during operation with the gripper are comparable with impact collision. To make the operation with the gripper easier the vehicle weight – carrier load capacity has great significance. However, you should be aware of the forces which act during operation of heavy vehicle with aggregated gripper. Reading and analyzing Instruction Manual will guarantee safe use and reduce the results of operation errors – it will lower a risk for operators.

Breaking distance S [ft]	Vehicle speed V [mph]		
	3	6	12
0,3	2	11	30
0,6	1	6	15
1,6	0,5	2,5	6
3,3	0,3	1	2,5

Table No. 2.Theoretical force F_{max} [tons], which may act on gripper

clamped to the vehicle with the weight of 5 t with changeable speed and breaking distances.

The data concerning forces acting on the vehicle – gripper unit will require high level of qualifications from persons operating the machine and appeal to consciousness of hazards appearing during operation of grippers with fodder load transported.

It is essential to choose the safe vehicle driving speed in order to guarantee that the operation does not constitute the risk for environment and operating personnel – the vehicle's operator.

It is of great importance to take care of even distribution of forces by the user as well as of symmetrical pressure distribution of clamping arms. You should never operate the gripper with only one arm loaded.

To prolong operation life of the gripper you should remember that the forces acting during operation, both at gathering and clamping of gripper were evenly distributed.

5. Device use

5.1. Gripper assembly

Make sure that all mounting elements of the vehicle and the gripper are matched appropriately to guarantee safe assembly and operation.
In case of the lack of clarity you should definitely contact the manufacturer of the vehicle or the gripper.

As there is a need to connect two gripper systems to the vehicle, the assembly of the gripper should be done in the following order:

i. Assembly of mechanical system of the vehicle and the gripper.

Depending on the type of fastening system, you should provide original protections. Every time when you assembly the system you should check the wear of connecting elements: bolts and journals.

ii. Assembly of the power hydraulic system

The gripper is equipped with pipes (hoses), which need to be connected to connector pipes of the vehicle power hydraulic system. Please make sure that the pipes (hoses) are run properly and check hydraulic connectors cleanliness. Connection should be made in accordance with schematic drawing 2

The gripper dismantling is carried out in reverse order with exercising special caution during disassembly of mechanical system which separates the gripper from the vehicle.

5.2. Hydraulic control system

The gripper arms pressure operation is controlled from the vehicle operator cabin. The grippers are equipped with power hydraulic system hoses with terminals which after being connected to the power hydraulic system of the vehicle ensure smooth control of their work.

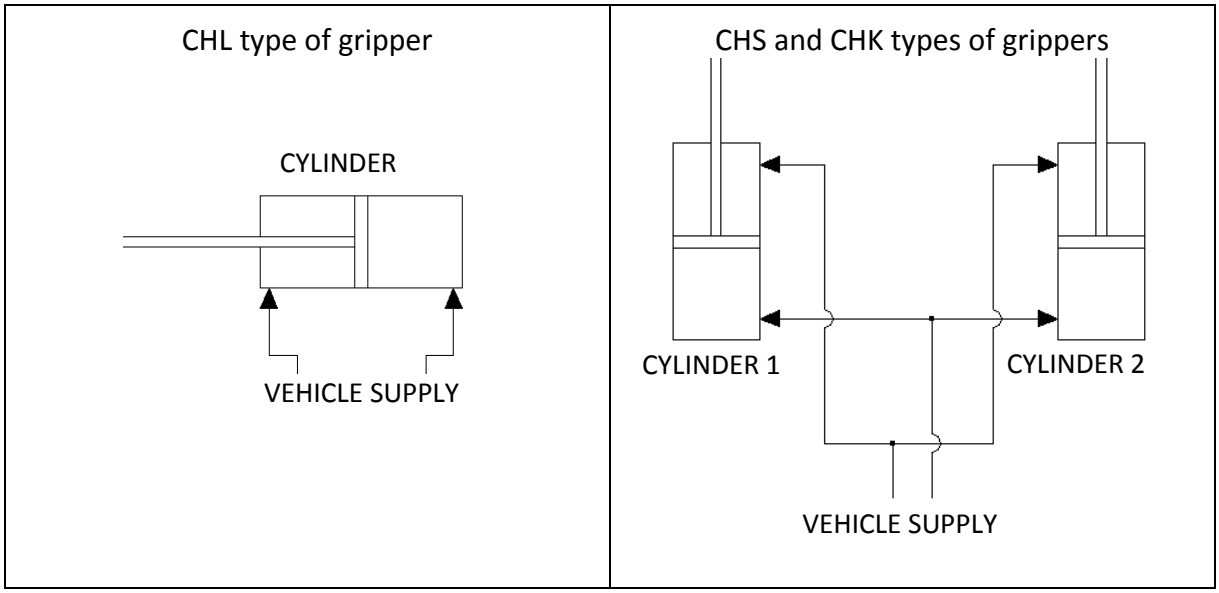


Fig.2 The grippers hydraulic systems

6. Servicing and maintenance procedure steps

All activities connected with the gripper's servicing can be done by the operator of the vehicle to which the gripper is attached provided that he is authorized to operate the vehicle.

The gripper's operation is only possible after reading the Instruction Manual.

- After work servicing

Each time, after finishing work, the gripper should be cleaned and placed on flat hardened surface. Then you should make an inspection of connections of parts and assemblies. Worn and damaged parts should be immediately replaced with the new ones. You should check all screw connections and screw in the loosen ones. All safety signs placed on the gripper should be kept clean.

- After season maintenance

Includes all operation steps listed in paragraph entitled: After work servicing. Additionally, the gripper should be stored under canopy on flat hardened surface. It is recommended to place wooden blocks under the gripper. You should make sure that paint cover is tight. If there is no paint in some places you should clean up the areas and apply new protection coating layer on them.

- Lubrication of movable connections

Lubrication of movable connections of the gripper is the basic maintenance operation step. All movable parts should be protected with ŁT-43 grease once a season. Clean all connections from dirt and old used grease before lubrication. If you notice any traces of wear, you should definitely replace used parts with the new ones.

6.1 Scrapping, the environment

In case of total wear of the machine to the level not allowing for its further use, it should be scrapped. This also concerns routine repairs or replacement of damaged parts. With the aim of doing it, the machine should be carefully cleaned. Drain used oil and pass it to utilization. Then you should disassemble the machine and segregate parts according to the types of used materials. Segregated parts should be passed to the scrap heap or for utilization.

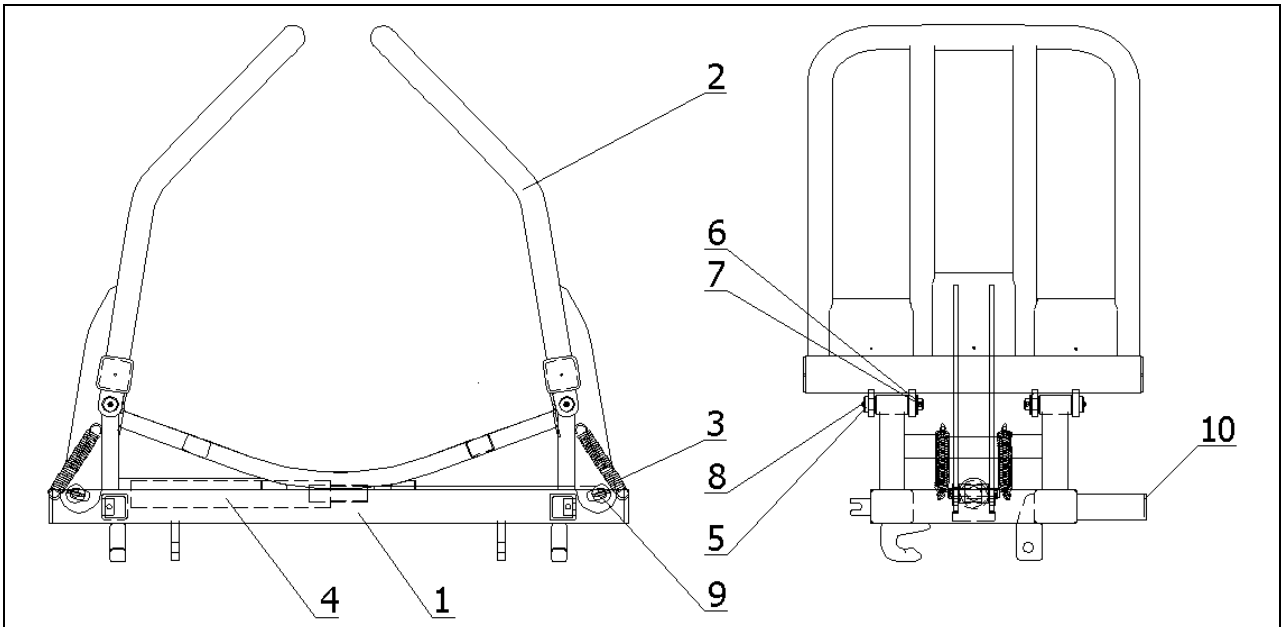
The machine is a fully environmental friendly product. The materials used for its production are recyclable in 98%. Used parts of the machine should be utilized in accordance with local environment protection law. During the whole period of machine use you shouldn't allow for oil leak, which can cause environment pollution.

7. Spare parts catalogue

All parts of the gripper are available at the manufacturer. In order to purchase them you should give its name, catalogue number and quantity.

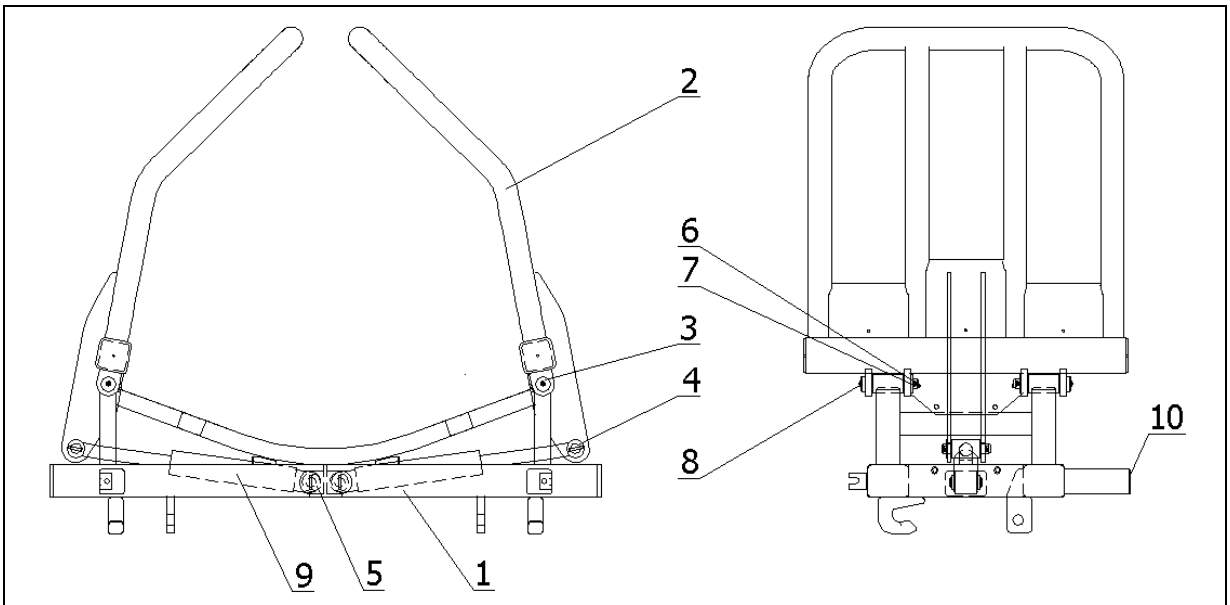
The parts catalogue does not contain standard parts available on general market, which can be bought in industrial shops of agricultural branch.

Fig. 3 Round bale gripper – light **CHL type**



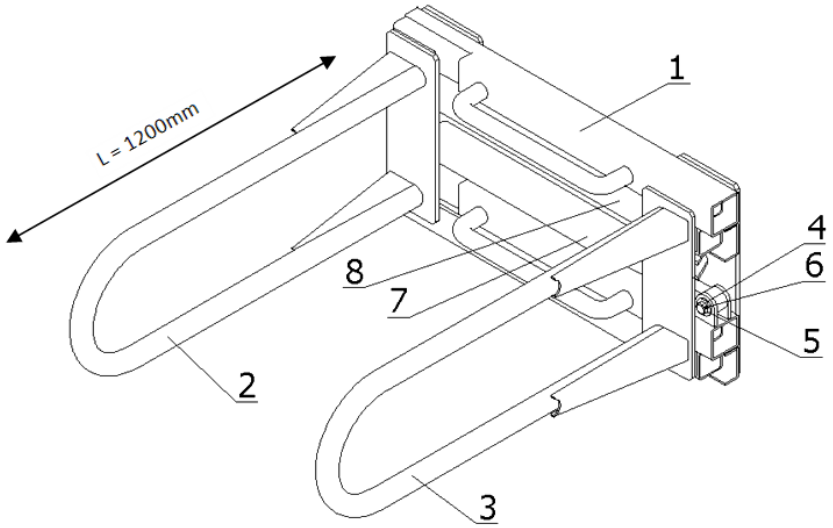
No.	*Part /assembly name*	*Catalogue number*	*Number of parts*
1	Frame	UBG.001	1
2	Arm	UBG.002	2
3	Spring	UBG.003	4
4	Hydraulic cylinder	UBG.004	1
5	Pin - arm fastening	UBG.005	4
6	Screw anchor (wall plug)	UBG.006	8
7	Washer	UBG.007	12
8	Grease nipple	UBG.008	4
9	Bolt – cylinder fastening	UBG.009	2
10	Plastic cap	UBG.010	2

Fig. 4 Round bale gripper – heavy **CHS type**



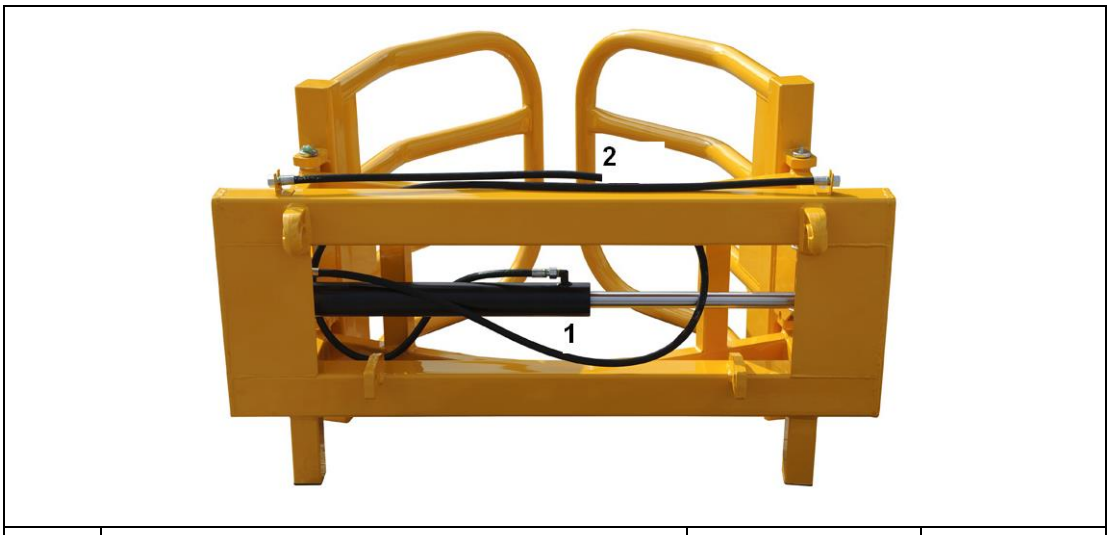
No.	*Part /assembly name*	*Catalogue number*	*Number of parts*
1	Frame	UBG2C.001	1
2	Arm	UBG2C.002	2
3	Pin - arm fastening	UBG2C.003	4
4	Bolt – cylinder fastening	UBG2C.004	2
5	Bolt – cylinder fastening 2	UBG2C.005	2
6	Screw anchor (wall plug)	UBG2C.006	12
7	Washer	UBG2C.007	24
8	Grease nipple	UBG2C.008	4
9	Hydraulic cylinder	UBG2C.009	2
10	Plastic cap	UBG2C.010	2

Fig. 5 Rectangular bale gripper **CHK type**



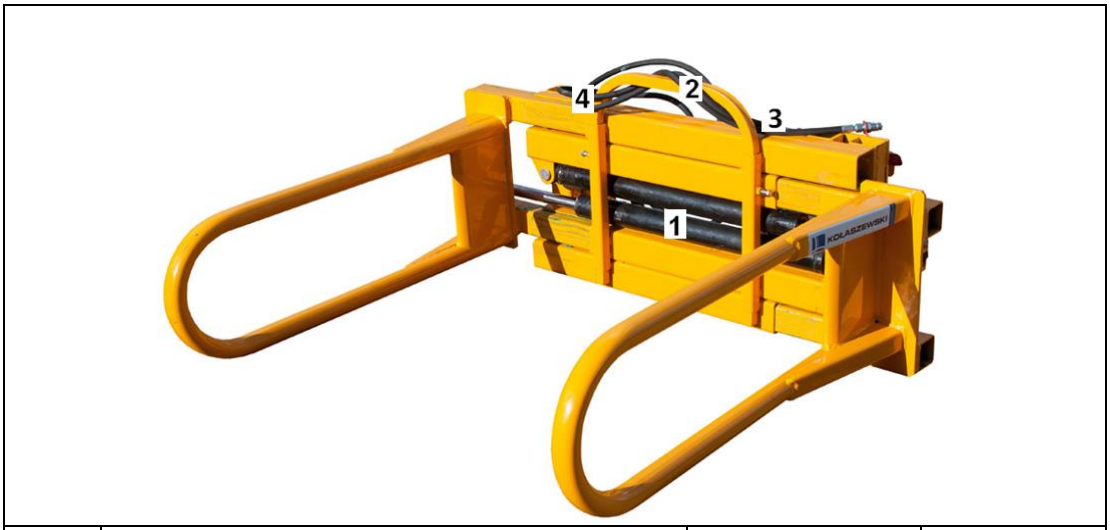
No.	*Part /assembly name*	*Catalogue number*	*Number of parts*
1	Frame	USBG.001	1
2	Left arm	USBG.002	1
3	Right arm	USBG.003	1
4	Bolt – cylinder fastening	USBG.004	4
5	Washer	USBG.005	4
6	Screw anchor (wall plug)	USBG.006	4
7, 8	Hydraulic cylinder	USBG.007	2

Fig. 6 Gripper CHL type - hydraulic supply elements



No.	*Part /assembly name*	*Catalogue number*	*Number of parts*
1	Hydraulic cylinder	UBG.011	1
2	Long hose of hydraulic cylinder	UBG.012	2

Fig. 7 Gripper CHS and CHK type - hydraulic supply elements



No.	*Part /assembly name*	*Catalogue number*	*Number of parts*
1	Hydraulic cylinder	USBG.009	2
2	Long hose of hydraulic cylinder	USBG.010	2
3	Short hose of hydraulic cylinder	USBG.011	4
4	T-connection	USBG.012	2

8. Warranty

WARRANTY CARD

Serial number	……	Type	……
The year of manufacture:	……	KJ	……

The manufacturer undertakes under this warranty to repair free of charge any physical defects disclosed during the warranty period which covers 12 months from the date of purchase.

The manufacturer is released from liability under this warranty in the following cases:

- Mechanical damages of the machine after handing it over to the user;
- Improper operation; maintenance and storage of the product especially contrary to this Instruction Manual;
- Repairs carried out by non authorized persons without the manufacturer's consent;
- Introducing constructional modifications without the manufacturer's consent;

The warranty card is valid if it has seller's signature and sales date affixed to it confirmed by the point's of sale stamp. There must not be any crossing-outs or alterations made by unauthorized persons.
A duplicate of the warranty card may be issued upon a written request and after submitting a proof of purchase by the user.
In case the service to carry out warranty repair is called unnecessarily, the costs of this are covered by the user.
The user should notify directly the seller about any damages within 14 days from their discovery.
The manufacturer provides warranty service within 14 days from the date of notification about the damage.
The warranty period is extended by the repair time counted from the date of notification to the date of service completion if the defect prevents from using the machine.
Warranty does not cover hydraulic pipes (hoses) of the machine.

Date of selling: _____ _____
(day, month, year) *(the signature and stamp of the point of sale)*

RECORD OF WARRANTY REPAIRS

To be filled in by the manufacturer

Date of notification of the complaint: _________

The repair range and the parts replaced: _______

____

____

____

Date of complaint handling: _________________

The warranty was extended until: _____________

____

(The signature and stamp of service centre)

Date of notification of the complaint: _________

The repair range and the parts replaced: _______

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Date of complaint handling: _________________

The warranty was extended until: _____________

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(The signature and stamp of service centre)

Date of notification of the complaint: _________

The repair range and the parts replaced: _______

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Date of complaint handling: _________________

The warranty was extended until: _____________

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(The signature and stamp of service centre)

Date of notification of the complaint: _________

The repair range and the parts replaced: _______

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Date of complaint handling: _________________

The warranty was extended until: _____________

____

(The signature and stamp of service centre)

DECLARATION OF CONFORMITY

1. Product manufacturer:
2. Product name:

Gripper…… Type ……..

The year of manufacture: …….. The manufacturer's number: ……

3. Product classification:

PKWiU *29.22.20-00.23*

Charging equipment

4. Intended use and the range of product application:

The grippers mounted at machine and vehicle fastenings are designed for loading, unloading, collection, storing of fodders, wastes and manure, and transporting them on closed company's area.

5. Reference documents:

EU regulations		Polish regulations	
Directive number	Title	Document name	No.
2006/42/EC	Machinery Directive	An order of the Minister of Economy of 21 October 2006 concerning basic machinery requirements	Polish Journal of Law 199/1228

Standard No.	Title
PN-EN ISO 12100-1:2005	Machinery. Safety. Basic concepts, general principles for design Part 1: Basic terminology, methodology
PN-EN ISO 12100:2011	Safety of machinery -- General principles for design -- Risk assessment and risk reduction
PN-EN 14121-1:2008	Safety of machinery -- Risk assessment -- Part 1: Principles
PN-ISO 730-1:1996	Agricultural wheeled tractors -- Rear-mounted three-point linkage -- Categories 1, 2, 3 and 4
PN-EN ISO 4254-1:2009	Agricultural machinery -- Safety -- Part 1: General requirements
PN-EN ISO 13857:2010	Safety of machinery -- Safety distances preventing from reaching dangerous zones by upper and lower limbs
PN-ISO 11684:1998	Tractors, machinery for agriculture and forestry, powered lawn and garden equipment. Safety sign and hazard pictorials. General principles.
PN-ISO 3600:1998	Tractors, machinery for agriculture and forestry, powered lawn and garden equipment - Operators manuals - Content and presentation
PN-M-73022:1973	Hydraulic drives and controls -- Hydraulic controls -- Division and markings
Procedure P06.01	System procedure P06.01, 05.01.2011. Processes supervision

Compliance with the directive and standard requirements was confirmed on the basis of tests carried out by the company:

Polish Foundation of Mechanical Engineers and Technicians „FITMECH" in Słupsk.

Tests were carried out by: Msc. Eng. Zbigniew Myszka – SIMP expert No. 9763/11

I declare, with fully responsibility, that the product is in accordance with reference documents given at point 5.

…… ……

(place and date of issue) *(full name and signature of a person authorised by the manufacturer)*

Declaration of quality policy

Policy **of Kołaszewski Sp. z o. o. - Bytów** comes down to running the company in such a way that the products/services offered to customers are in compliance with established requirements concerning quality and reliability and in conformity with national and international regulations, as well as carrying this task in a continuous way, friendly to the customers, work environment and with respect to the natural environment.

In order to keep and increase **Customers satisfaction** as well as other interested parties satisfaction the company applies the following **quality tasks:**

- it can offer and deliver only such products/services that can deserve customers recognition through effective fulfilling their needs and expectations with a consideration of standards and regulations being in force;
- High level of products/services quality, extensive offer of products/services and the culture of customer service are decisive for keeping competitive advantage as a reliable supplier of good-quality products/services.

Quality objectives are attained due to:

- application, development and constant improvement of quality management system on the basis of ISO series 9001:2008 standard as well as integrating the system requirements according to the standards of environmental management and management of health and safety at work.
- establishing and improving of cooperation with suppliers and consumers of materials/products/services,
- consistent motivation and development of personnel qualifications and experiences,
- communicating and informing about the policy and goals at all levels of management and for all functions,
- planning of means and activities in such a way as to ensure supervised receipt, transport and storage conditions and to prevent any cases of imperfection,
- identifying, planning and managing processes and connections between them as well as consistent assessment of processes effectiveness and efficiency including the processes of constant improvement.

Responsibility for quality shared by all employees through deliberate division of tasks and qualifications. Detailed goals concerning quality are developed for all functions and management levels and they particularly include goals concerning distribution processes as well as constant improvement goals involving all company's personnel in their setting and implementing.

President of the Management Board is responsible for establishing and continuing of quality policy, He is also committed to create conditions and internal company environment in order to allow all employees to get fully involved in attaining the goals. This commitment also encompasses provision of means needed for policy accomplishment including establishment, development and constant improvement of the quality management system and processes being a part of it.

A decision concerning introduction of the above policy was made by **the President of the Management Board**, who is undersigned below.

Bytów, 05.01.2011

Msc. Eng. Arkadiusz Urbaniak

- President of the Management Board

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