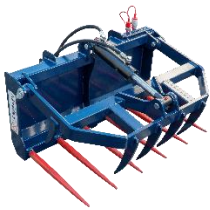


USER MANUAL

WARRANTY



AVANT
GRAPPLE FORK

INDEX: AFWG



GRAPPLE FORK
MINI 1 actuator

INDEX: SFWG



GRAPPLE FORK
MINI 2 actuators

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GRAPPLE FORK
STANDARD

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GRAPPLE FORK
MAXI - 1 jaw

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GRAPPLE FORK
MAXI - 2 jaws

INDEX: XLFWG



GRAPPLE FORK
MAXI VISION

INDEX: FWGMV

Bytów 2020

TRANSLATION OF THE ORIGINAL MANUAL

Revision 01



NOTE!

Before using the machine, please read thoroughly this User Manual and observe the safety instructions contained herein.

The User Manual is an integral part of the machine!

Keep the User Manual in a safe place, where it should be accessible to the machine operator during an 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 User Manual must be attached with the declaration of conformity for the machine.

The Manufacturer reserves its copyrights to the User Manual.

Copying, processing of the User Manual and its parts without the manufacturer's permission is strictly prohibited.

The information included in the Manual is valid as of the date of its issue. As a result of product improvements, some data and illustrations may not correspond to the actual state of the machine delivered to the customer. The manufacturer reserves the right to make design changes to improve the product without amending this publication. If you do not fully understand the information contained in this manual, please contact the manufacturer or your local dealer.

User manual:

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MFWG - Grapple fork

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1. Introduction

Before commencing first activities related to the use of the hydraulic fork, it is essential to read and understand this instruction manual and follow all recommendations contained therein.



NOTE!
Read the User Manual
before using the machine

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

This manual also contains the rules for proper use of the fork and explains the required maintenance procedures.

If the information contained in the User Manual is unclear, please contact the manufacturer.



CAUTION!
This symbol warns of a hazard.
The warning symbol indicates an important hazard information provided in the User Manual. Please read the information, follow the instructions and exercise particular caution.

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2. Rules of safe operation

2.1 User safety

Hydraulic forks may be operated exclusively by appropriately trained adults who are familiar with the operation of the forks and this instruction manual. The fork should be operated with all necessary precautions, in particular:

- Apart from this User Manual, observe also general rules of health and safety at work.
- Observe warning symbols placed on the machine.
- Never allow the vehicle towing the fork to be operated by a person other than its operator, and in any case do not allow other people to remain in the vehicle or by the machine while in operation.
- The fork may be operated by a person with the proper authorisation to drive the vehicle to which it is attached, in accordance with the manufacturer's instructions.
- The operating position of the operator, while working with the fork, is the cabin of the vehicle to which the fork is attached.
- Please note, that there are many elements of the fork 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 it is obligatory to use the following personal protection equipment:
 - protective clothing,
 - protective gloves,
 - protective footwear,
- It is forbidden to carry persons or objects on the fork.
- Persons who have not read the User Manual are not allowed to operate the fork.
- The personnel operating the fork outside of the workplace should be provided with a first-aid kit containing measures for first aid, along with instructions regarding their use.
- When working with bulk materials, it is necessary to use protective clothing appropriate for the pushed, transported material, particularly rubber footwear, gloves, an overcoat, a hat and a half-mask – if working with dusty materials.
- Immediately seek medical advice in case of poisoning or infection.
- When driving a vehicle with the fork attached, but not working, ensure the safe transportation height of min. 0.3 m.
- Adjust the transport speed to the condition of the road.
- In order to maintain adequate manoeuvrability, the fork must be adapted to the vehicle in accordance with the recommendations of the manufacturers – both of the vehicle and the fork – as well as the linkage system of the vehicle. The attachment rules from the manufacturer are described in section 5.1. Fork assembly - of these instructions.

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- Axle load on any of the axles of the vehicle with the fork installed must not be less than 20% of its total weight.
- Do not leave the vehicle with the mounted fork on slopes or other inclines without securing the vehicle against accidental rolling away. The fork should be lowered to the ground. Put wedges under the wheels of the vehicle.
- Switch off the drive, the engine of the vehicle, immobilize the vehicle and wait until all moving elements of the equipment have come to a complete stop prior to commencing any activity related to preparing, assembly, disassembly or adjustment.
- After the first hour of operation, check all disjoint connections like bolt connections.
- The fork should be kept on a flat, level, paved surface, out of the reach of bystanders and animals.
- Exercise caution during the mounting and dismounting of the fork, pay particular attention to the structural elements that connect the fork to the vehicle.
- Check the technical condition of the fork and the vehicle prior to commencing work. The assembly, the vehicle and the fork must be in good technical condition. Any worn or damaged parts must be replaced immediately.
- The fork must have all guards covering movable parts in place (if the manufacturer has equipped the machine with such guards). The guards must be complete and fully functional.
- Weight of the fork suspended on a vehicle can affect the vehicle's manoeuvrability. In such a situation exercise particular caution.
- The User Manual must be kept near the fork. If you loan the fork for use, ensure that it is in good technical condition, and that it is complete with the User Manual.
- Prior to commencing work, prepare the fork in line with the recommendations specified in item: 5. Machine operation, Fork assembly.
- Do not attach any additional transport means to the fork.
- It is forbidden to transport the fork on the three-point suspension system of a vehicle on public roads.
- Check the operation of the fork during initial start-up.
- Mount the protective devices for the fork pins only using typical cotter pin as protection. Do not use other securing methods.
- Due to wear and tear of the materials please follow the recommendations described in Chapter 6. Operation and maintenance.
- Check the hydraulic system of the fork prior to commencing any work. Actuators, hydraulic lines and connections must be tight. Any worn or damaged parts must be replaced immediately.

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FWGMV - Grapple fork 2 actuators

- During the operation of the unit, the hydraulic lines are under high pressure. The hydraulic lines must be depressurised prior to connecting and disconnecting the hydraulic system with the system of the vehicle.
- When commissioning and transporting the fork, inspect its technical condition to check for damage.
- Do not let people stay under a lifted fork; they could be crushed by structural elements or transported materials.
- Do not stay close to a working fork.
- When adjusting or servicing the equipment, do not put your fingers and limbs between structural components of the fork.
- When using the fork, the operator must make sure nobody gets close to or stays near it.
- Ensure suitable visibility when U-turning, reversing or manoeuvring the fork, or ensure assistance from a properly trained person.
- Do not stay between the vehicle and the fork when the vehicle's engine is running.
- Working on slopes exceeding 8% is not allowed.
- Exercise particular caution when working on slopes.
- Exercise particular caution when making turns or u-turns with the fork mounted on the vehicle, both during transport as well as while making u-turns, particularly with people, animals or objects near the machine.
- The vehicle used with the fork should feature a cabin.
- Never leave the vehicle unattended when the engine is running. Before leaving the driver's seat, lower the fork to the ground, switch off the vehicle's engine, remove the ignition key, and apply the handbrake.
- Avoid wearing unbuttoned, hanging parts of work clothes during the operation, assembly, disassembly or adjustment. Keep such clothing elements away from components that can catch them.
- Do not dismount the fork from the vehicle until the engine of the vehicle has stopped and the key has been taken out of the ignition.
- After work it is recommended to clean and wash the fork in the wash fitted with a sewage treatment plant or a settler to neutralise the resulting waste water.
- The fork should be kept and stored on a flat, hardened surface, under a protective canopy in places protected from unauthorised access of persons and animals, thus eliminating the risk of accidental injuries.
- In case of failure, immediately turn off the drive transmitted from the vehicle.
- The fork must not be operated by persons under the influence of alcohol or other intoxicants.
- Any maintenance operations, which require working close to the fork, must be carried out with the fork lowered to the ground and with the vehicle engine stopped.

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- The fork can be operated exclusively from the driver's cabin of the vehicle onto which the fork has been mounted.



Failure to follow the above rules may be dangerous for the operator and bystanders and can cause damage to the fork. The user is responsible for damage resulting from non-compliance with the above rules.

The fork is not designed for use on public roads – transporting the fork on the tractor's three-point linkage on public roads is prohibited.

2.2. Safety signs on the machine and their meaning

 <p>1.0 - Prior to using the machine, read the User Manual</p>	<p>C.2.26</p>  <p>1.1 - Switch off the engine and remove the ignition key before any servicing or maintenance procedures</p>	<p>C.2.7</p>  <p>1.5.1 - Do not stand close to or under the lift rods during steering</p>
<p>C.2.1</p>  <p>1.2 - Keep a safe distance from a raised boom or bucket</p>	<p>C.2.30</p>  <p>1.7 - Keep a safe distance from power lines</p>	<p>C.2.44</p>  <p>1.8 - Avoid exposure to liquids flowing under pressure. Read the User Manual and learn about the maintenance works</p>
<p>A.7.2 + B.2.6</p>  <p>1.2.2 - Keep a safe distance from the machine. Body and foot injuries</p>	<p>2.3 - Wear a protective suit</p> 	<p>2.6 - Wear protective footwear</p> 
	<p>2.4 - Use safety gloves</p> 	<p>3.1 - Warning message about pressure in the hydraulic system</p> 

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2.3. Hazards associated with the operation of the grab

<i>Item</i>	<i>Risk</i>	<i>Hazard source (cause)</i>	<i>Possible consequences of risk</i>	<i>Risk preventive measures</i>
1	Overloading the locomotor system (physical load)	Working in a standing position, inclined-forced position, walking, moving objects	Conditions of the locomotor system, spine injuries, strained tendons	Read and understand the User Manual; do workplace 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 ground, mess – lying and standing objects, obstructed traffic routes, slippery silo surfaces	Contusions, dislocations, sprained joints, broken bones, cuts	Suitable footwear, levelled terrain, paying attention, maintaining order, reading the User Manual
3	Hitting protruding and sharp parts of the machine	The machine and its surroundings	Injuries to the body, contusions, bumps, bruises and cuts	Proper positioning of the machine, safe space for movement, appropriate organization of work, maintaining caution, using personal protective equipment (helmet, gloves), reading the User Manual
4	Being struck by moving objects	Fodder falling from the equipment during transport, pieces of turf, silage	Contusions, cuts	Maintaining caution, marking the danger zone, banning walking in the immediate surrounding of the working machine, banning staying under a suspended load – suspended machine, use of personal protective equipment (helmet, safety glasses), reading the manual
5	Sharp, dangerous edges	Protruding parts of the machine structure, use of hand tools	Finger and hand wounds, scratches, catching parts of one's clothes on the equipment	Personal protective equipment – safety gloves, buttoned up work clothes, exercising special attention
6	Movable machine parts	Movable machine elements, moving piston rods of hydraulic cylinders, no guards on movable parts	Drawing-in hazard, limb wounds, crushed fingers and palms	Banning walking in the immediate surrounding of the working machine, exercising particular caution, covering movable parts with guards, reading the manual
7	Weight of a suspended or standing machine, weight of a loaded machine	Improper mounting, aggregation, incorrect positioning of the machine, poor maintenance, leaving a hitched machine on the tractor, fodder incorrectly loaded onto the machine for transport	Contusion, crushed feed or palms	Exercising particular caution, prohibition of staying under a load – a suspended machine, use of personal protective equipment – safety footwear, protective gloves, safe positioning of the machine, using help of a second person, using jacks, davits, reading the manual
8	Micro climate - variable weather conditions	Work carried out in different weather conditions	Overheating (heat stroke), sunburn	Appropriate work clothes, beverages, sunscreen, rest, reading the manual, ventilation of the drivers' cabin
9	Noise	Too high rotational speed of the vehicle, damaged, loose or vibrating parts	Irritation, loss of concentration, neuroses	Making sure the vehicle and the machine are fully operational, regular maintenance of the equipment, keeping the revolutions of the vehicle engine in the desired range, reading the manual

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FWGMV - Grapple fork 2 actuators

3. Intended use

Hydraulic forks are designed for loading, unloading, collecting, storing feed, waste and manure and transporting them within the company's enclosed premises.

Mounting the fork to the vehicle is possible via the following linkage: TUZ I, TUZ II, TUZ III, EURO, SMS, ISO. The unit works perfectly when mounted on all TUR front loaders. The linkage should be selected in accordance with the instructions for the vehicle and the fork.

The working element is the upper grabbing jaw of the fork, equipped with specially designed elements to separate, press and hold the material to be transported. The fork is equipped with a hydraulic control system, which, when connected, enables controlling the cutter from the operator's cabin in the vehicle.

The working methods are described in section 4.3 Forces acting on the fork.

Complying with the requirements for the use of the machine, its operation and repairs strictly according to the manufacturer's guidelines is the condition for the use of machine as intended. The fork must be operated, maintained and repaired exclusively by persons familiar with its specific characteristics and acquainted with the rules of conduct in terms of health and safety.

The manufacturer stocks a wide range of forks and other equipment to facilitate transport. It also provides expert consultancy in terms of selecting the right accessories according to each user's needs.



In case of any doubts regarding the intended use of the equipment, please contact the manufacturer of the fork. Selecting the right equipment and knowing its intended use makes its operation safer.

4. Description of the device



Fig. 1 General view - grapple fork

Hydraulically controlled forks can be used with vehicles equipped with a power hydraulics system typically used for rear and front attachment in farming vehicles.

Basic linkage systems used in our forks include the following:

- EURO linkage
- TUZ (three-point linkage) I, TUZ II, TUZ III, TUZ IV
- SMS linkage

The grapple fork is composed of two main structural elements connected with an articulated joint. The first element is the **fork frame** made from thick laser-cut, bent steel sheet joined by welding into a rigid frame - a box with forged teeth fitted. The second element is **the jaw** – a movable part of the fork. It is made of steel components welded together, with forged teeth fitted. In the top part, it is swivel-mounted to the fork frame, and in the back - to the hydraulic cylinders.

The hydraulic system, controlled from the operator's cabin once connected to the vehicle, enables seamless movement of the jaw in the range of 60°.

The jaws built into the forks have a special design that allows them to easily adapt to the variety of fork-transported feed. The matched arrangement of the teeth allows for an increase in the volume (by clamping) of the load to be carried and for secure protection during transport.

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4.1. Equipment and accessories

4.1.1. Basic

Basic fork equipment includes:

- The hydraulic control system with power hydraulics lines
- User Manual
- Warranty Card



The fork is not supplied with a portable warning light or a triangular slow vehicle warning sign. These elements can be purchased separately from the manufacturer or in a farming equipment depot. Each user of the fork should have a fully functional warning light and a triangular slow vehicle warning sign.

Failure to install these elements during transport may result in an accident. The machine user is responsible for the damage resulting from the accident.

4.1.2. Optional

1. A \varnothing 10.5 cotter/safety pin
2. Central coupler to the tractor

Note:

ALL OPTIONAL ELEMENTS OF THE FORK ARE AVAILABLE
FROM THE MANUFACTURER AGAINST AN ADDITIONAL PAYMENT.

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FWGMV - Grapple fork 2 actuators

4.2. Technical specification

Table 1 TECHNICAL CHARACTERISTICS OF THE **HYDRALIC FORK**

Item	Specification	UOM	Parameter				
			AFWG	SFWG	MFWG	XLFWG	FWGMV
1.	Fork type WK	–	AFWG	SFWG	MFWG	XLFWG	FWGMV
2.	The machine type	-	Hitched, medium class				
3.	Overall dimensions						
	Length	[mm]	825	885	1000	1210	1188
	Width	[mm]	800-1400	900-1500	1400-2400	1800-2500	1800-2500
	Height	[mm]	803	803	880	1020	1220
4.	Fork weight	[kg]		155-220	255-410	470-580	550-750
5.	Working heigh with the jaw lifted	[m]	813	1035	1130	1334	1530
6.	Setting of the working position	–	Hydraulic control system				
7.	Hydraulic system working pressure	[MPa]	15 ÷ 23				
8.	Transport clearance	[mm]	300				
9.	Transport speed	[km/h]	4 ÷ 8				
10.	Number of operators	[pcs.]	1				
11.	Compatible tractor class	[HP]	48+				
12.	Type of fastening on the vehicle – DIN ISO 730-1 category	TUZ	I or II or III				

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4.3. Forces acting on the fork

The extremes occurring with the operation of the fork are comparable to a collision. The weight of the vehicle - the load capacity of the carrier - is very important for facilitating the work of the fork. However, it is important to be aware of the forces involved when operating a heavy vehicle

with a fork connected. Reading and analysing the User Manual will ensure safe use and reduce the consequences of operating errors - reducing risks.

Table I Permissible uniform load on forks.

Fork size [m]	1.2	1.4	1.6	1.8	2.0
F _{max} [daN]	7000	7,500	7,500	8,000	9,000

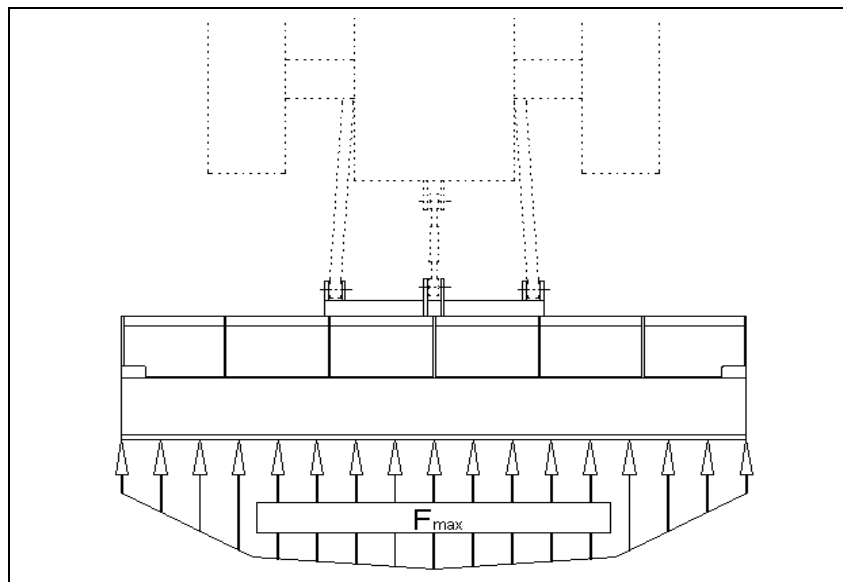


Fig. 3 Force distribution of permissible uniform fork loading during picking up.

Table 3. Theoretical force F_{max} [tonnes] that can act on a fork fitted to a 5,000 kg vehicle, with varying speed and braking distance.

Braking distance S [m]	Vehicle speed V [km/h]		
	5	10	20
0.1	2	11	30
0.2	1	6	15
0.5	0.5	2.5	6
1.0	0.3	1	2.5

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The figures given above for the forces acting on the vehicle-fork system require a high level of skill on the part of the operators and make them aware of the dangers involved when using the fork during intake.

It is important to match the speed of the vehicle safely so that the work being done does not endanger the environment or the vehicle operator.

It is very important for the user to ensure that the forces are evenly distributed and that the pressure distribution of the grabbing jaw is symmetrical. Do not work the fork with a load on one side of the jaw.

To increase the service life of the fork, it is important to ensure that the forces acting during operation, during both intake and pressing, are evenly distributed.

5. Machine operation

5.1. Fork assembly



Make sure that the connecting parts of both the vehicle and the fork are suitably adjusted to each other.
In case of any doubts, contact the manufacturer of the vehicle or the fork.

As two systems of the grapple fork must be connected to the vehicle, the mounting sequence should be as follows:

I. Connecting the mechanical systems of the vehicle and the fork.

Depending on the three-point hitch suspension system type, make sure the original safety elements are present. Each time the machine is mounted on the vehicle, check the connecting elements, i.e. pins and plugs, for wear.

II. Installing power hydraulic system

The fork is equipped with lines to be connected with the connection pipes of the supply system of the vehicle. Make sure the lines are routed correctly and the hydraulic connections are clean. Make the connection in line with the diagram in Fig. 4.



To dismantle the fork, follow the above instructions in a reverse order, exercise particular caution when disconnecting the mechanical system between the fork and the vehicle.

5.2. Fork pressure control system

The fork's pressing is controlled from the vehicle operator's cabin. The fork is equipped with terminals of the power hydraulics system, which, once connected with the hydraulic system of the vehicle, enable their seamless control.

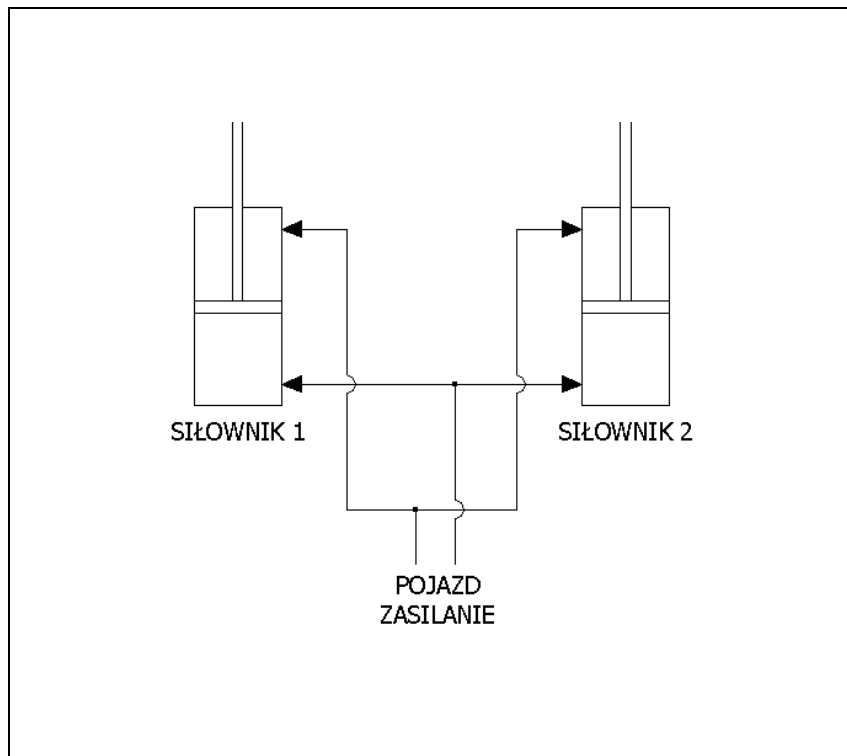


Fig. 4 The hydraulic system of the grapple fork

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6. Operation and maintenance

All the fork operations can be performed by the operator of the vehicle to which the fork is mounted, providing they have proper authorisation to operate this vehicle. Read the user manual of the fork prior to operating the equipment.



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.

6.1. Maintenance after work

Each time the work has been completed, clean the fork and place it on a flat and hard ground. Next, check the connections between particular parts and assemblies. Replace damaged or worn elements with new or remanufactured ones. Check all the bolted joints and tighten any loose bolts and nuts according to Table 3. Keep clean all safety signs on the fork and the triangular plate warning of slow vehicles.

Table 3 TIGHTENING TORQUE VALUES FOR BOLTS AND NUTS

Durability	6.8	8.8	10.9	12.9
Metric thread	Tightening torque [Nm]			
M8	18	25	36	43
M10	37	49	72	84
M12	64	85	125	145
M16	160	210	310	365
M20	310	425	610	710
M24	535	730	1050	1220

6.2 Out-of-season maintenance

Includes all actions specified in section “Maintenance after work”. In addition, the fork should be stored under roof, on a flat and hard surface. It is recommended to place the fork on wooden lathes. Make sure the paint coat is intact. If there are any defects in the coat, clean the spot and apply a new protective coating.



In the case of leaks from the hydraulic system, the damaged parts and components must be replaced to avoid contamination of the environment. **Hydraulic lines, regardless of their external condition, must be replaced after 5 years.**

6.3 Lubrication of flexible joints

Basic maintenance includes greasing flexible joints of the fork. Once in a season, apply ŁT-42 grease onto all movable parts. Remove soiling and old grease before applying new grease. Any parts showing wear must be replaced with new ones.



Avoid contact with oil!
Use personal protective equipment such as protective clothing, footwear, gloves and glasses.

6.4 Scrapping, environment

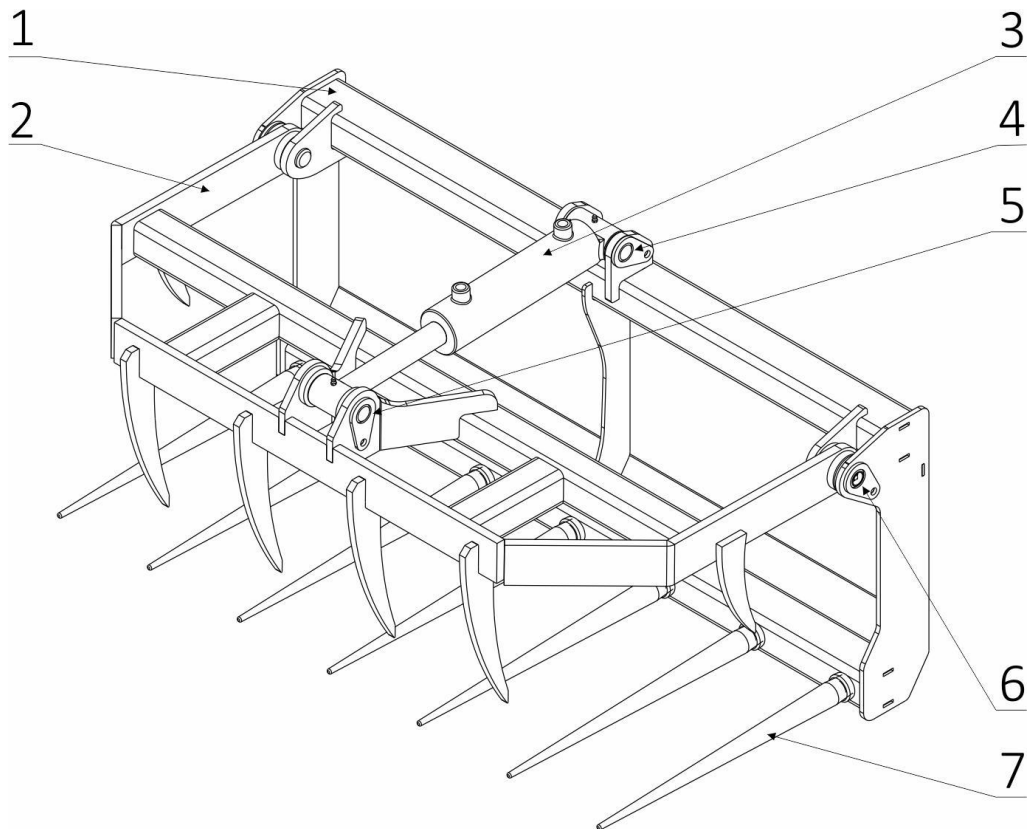
Hand over the machine for disposal if it is worn to the extent which prevents its further use. This also applies to regular repairs and replacement of damaged parts. Clean the machine thoroughly before scrapping. Next, disassemble the machine by segregating its parts based on the applied materials. Segregated parts should be transported to a scrap yard or disposed of. The machine is 100% environmentally friendly. 97% 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.

7. Spare parts catalogue

All parts for the machine are available from the manufacturer. If necessary, please contact the manufacturer to obtain a spare parts catalog.

The catalog does not include commercially available standards that can be purchased in industrial and agricultural stores.

Fork MIKRO INDEX: AFWG



Lp.	Name of the part – assembly
1	Frame *
2	Jaw *
3	Actuator
4	Actuator pin
5	Actuator pin
6	Jaw pin
7	Forged tooth – straight

* – enter width

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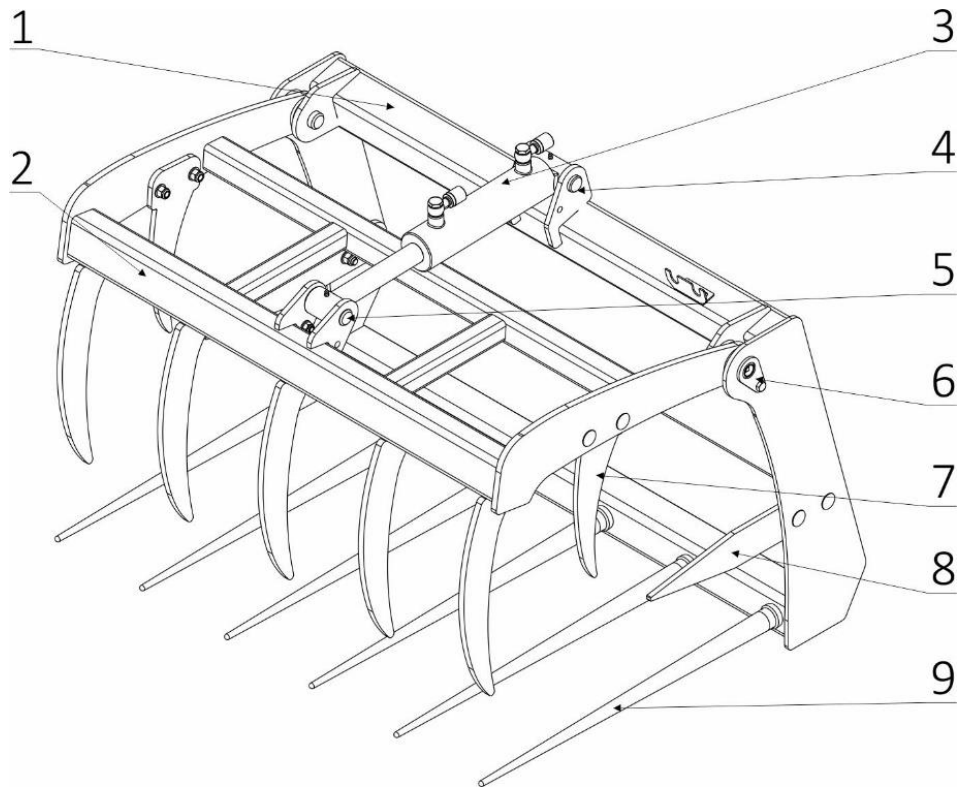
MFWG - Grapple fork

XLFWG - XL grapple fork 1 jaw

XLFWG - XL grapple fork 2 jaws

FWGMV - Grapple fork 2 actuators

Fork MINI 1 actuator INDEX: SFWG



Lp.	Name of the part – assembly
1	Frame *
2	Jaw *
3	Actuator
4	Actuator pin
5	Actuator pin
6	Jaw pin
7	Side tooth
8	Symmetrical side tooth
9	Forged tooth – straight

* – enter width

User manual:

AFWG - AVANT grapple fork

SFWG - MINI grapple fork 1 actuator

SFWG - MINI grapple fork 2 actuators

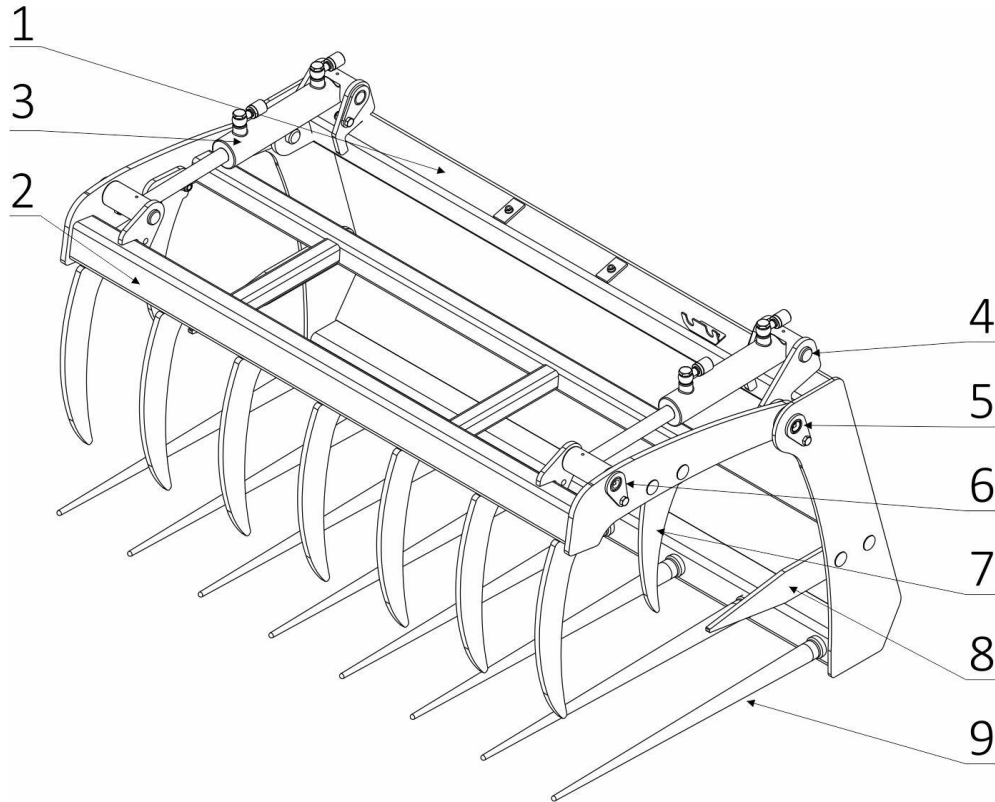
MFWG - Grapple fork

XLFWG - XL grapple fork 1 jaw

XLFWG - XL grapple fork 2 jaws

FWGMV - Grapple fork 2 actuators

Fork MINI 2 actuators INDEX: SFWG



Lp.	Name of the part – assembly
1	Frame *
2	Jaw *
3	Actuator
4	Actuator pin
5	Actuator pin
6	Jaw pin
7	Side tooth
8	Symmetrical side tooth
9	Forged tooth – straight

* – enter width

User manual:

AFWG - AVANT grapple fork

SFWG - MINI grapple fork 1 actuator

SFWG - MINI grapple fork 2 actuators

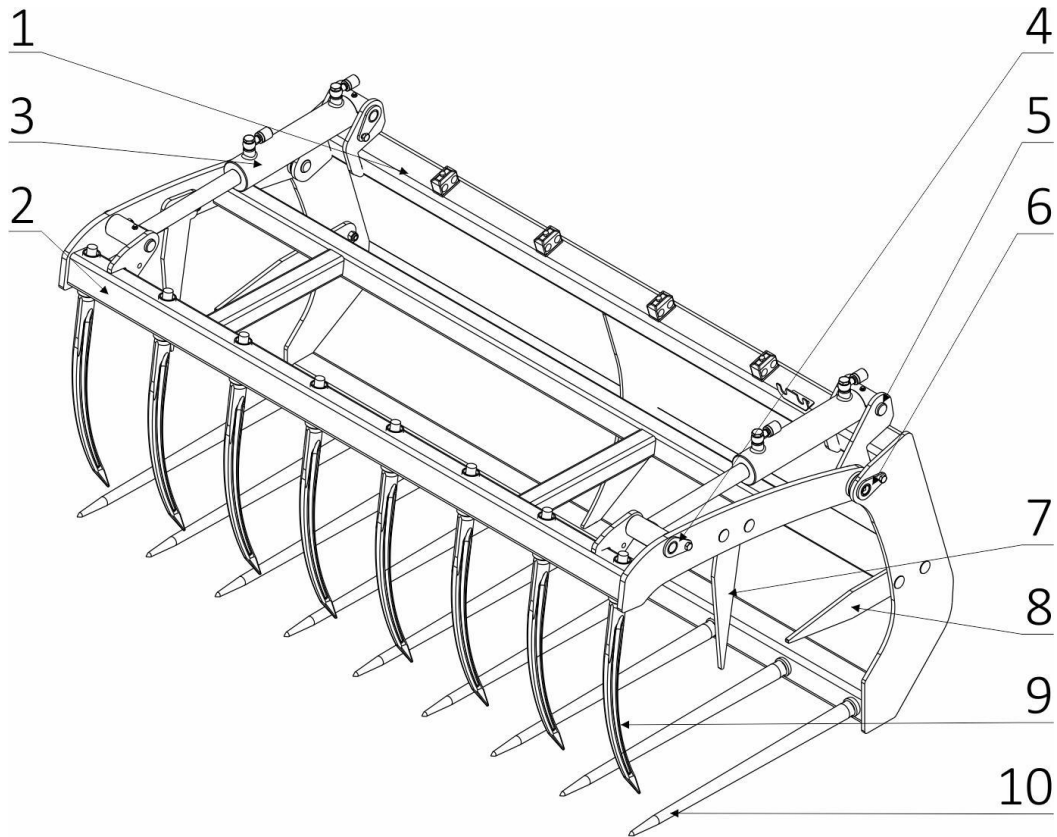
MFWG - Grapple fork

XLFWG - XL grapple fork 1 jaw

XLFWG - XL grapple fork 2 jaws

FWGMV - Grapple fork 2 actuators

Fork STANDARD INDEX: MFWG



Lp.	Name of the part – assembly
1	Frame *
2	Jaw *
3	Actuator
4	Actuator pin
5	Jaw pin
6	Actuator pin
7	Side tooth
8	Symmetrical side tooth
9	Forged - bent tooth
10	Forged tooth – straight

* – enter width

User manual:

AFWG - AVANT grapple fork

SFWG - MINI grapple fork 1 actuator

SFWG - MINI grapple fork 2 actuators

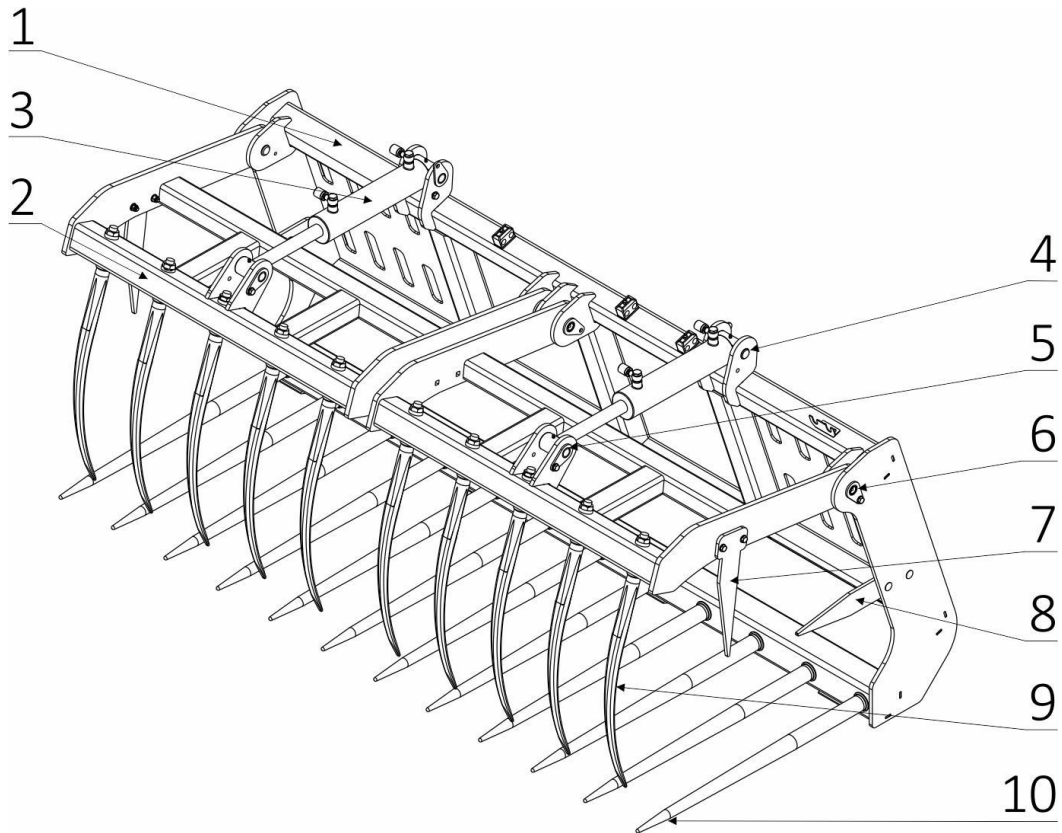
MFWG - Grapple fork

XLFWG - XL grapple fork 1 jaw

XLFWG - XL grapple fork 2 jaws

FWGMV - Grapple fork 2 actuators

Forks; MAXI, MAXI VISION INDEX: XLFGB, FWGMV



Lp.	Name of the part – assembly
1	Frame *
2	Jaw *
3	Actuator
4	Actuator pin
5	Jaw pin
6	Actuator pin
7	Side tooth
8	Symmetrical side tooth
9	Forged - bent tooth
10	Forged tooth – straight

* – enter width

User manual:

AFWG - AVANT grapple fork

SFWG - MINI grapple fork 1 actuator

SFWG - MINI grapple fork 2 actuators

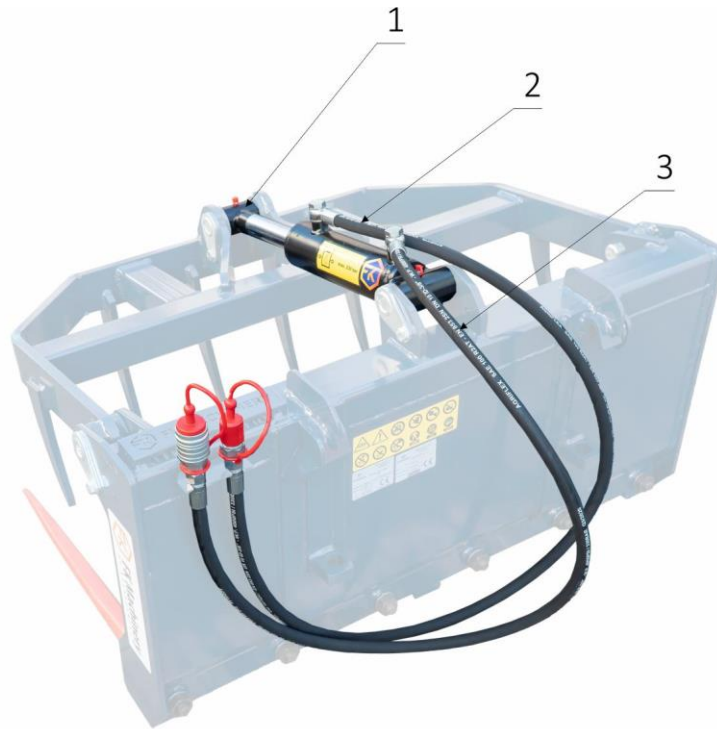
MFWG - Grapple fork

XLFWG - XL grapple fork 1 jaw

XLFWG - XL grapple fork 2 jaws

FWGMV - Grapple fork 2 actuators

Foeks; MIKRO, MINI INDEX: AFWG, SFWG



<i>Lp.</i>	<i>Name of the part – assembly</i>
1	Hydraulic cylinder
2	Actuator cable 1
3	Actuator cable 2

User manual:

AFWG - AVANT grapple fork

SFWG - MINI grapple fork 1 actuator

SFWG - MINI grapple fork 2 actuators

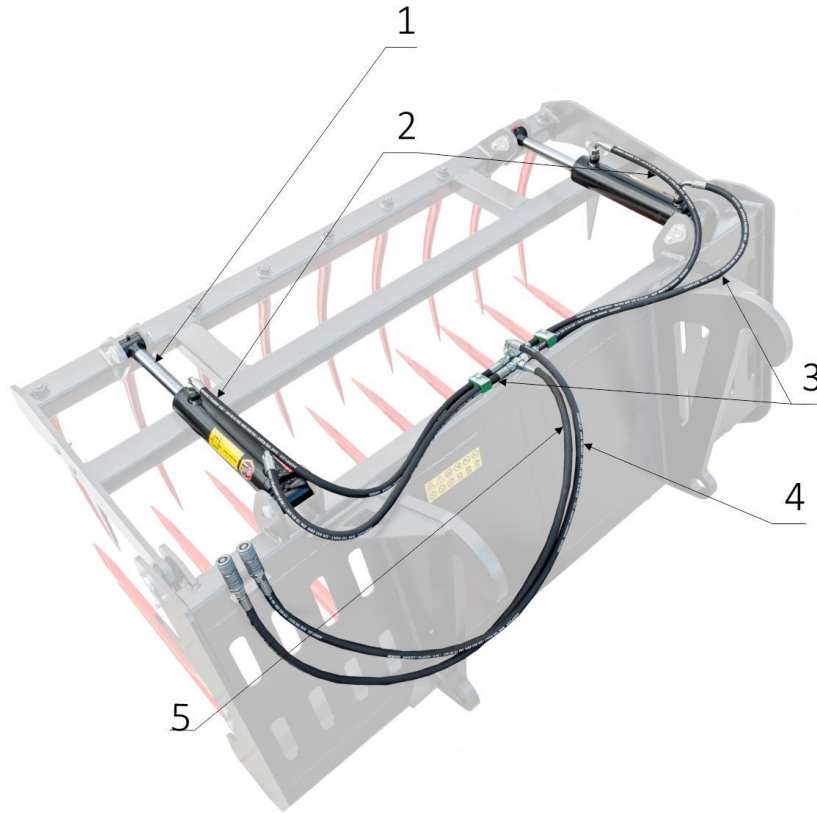
MFWG - Grapple fork

XLFWG - XL grapple fork 1 jaw

XLFWG - XL grapple fork 2 jaws

FWGMV - Grapple fork 2 actuators

Fork; STANDARD INDEX: MFWG



<i>Lp.</i>	<i>Name of the part – assembly</i>
1	Hydraulic cylinder
2	Actuator cable *
3	Actuator cable *
4	Power cord
5	Power cord

* – enter width

User manual:

AFWG - AVANT grapple fork

SFWG - MINI grapple fork 1 actuator

SFWG - MINI grapple fork 2 actuators

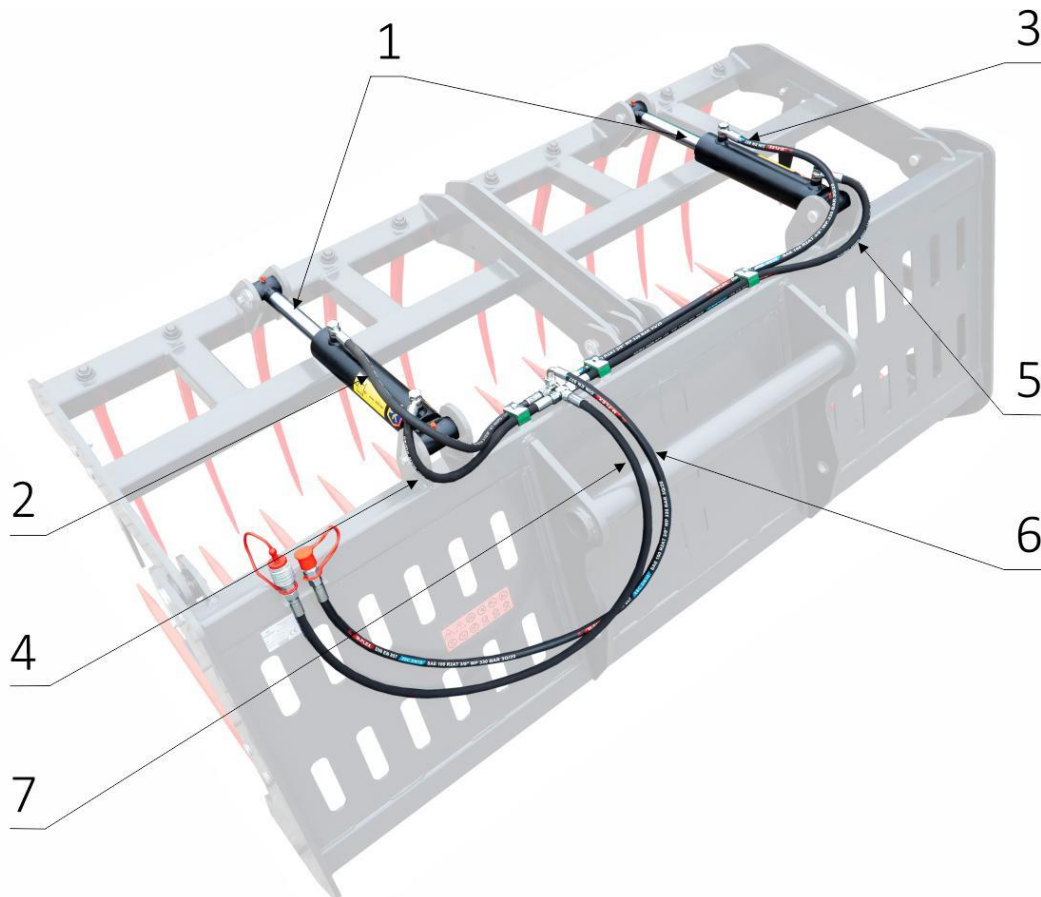
MFWG - Grapple fork

XLFWG - XL grapple fork 1 jaw

XLFWG - XL grapple fork 2 jaws

FWGMV - Grapple fork 2 actuators

Widłokrokodyl MAXI VISION INDEX: FWGMV



Lp.	Name of the part – assembly
1	Hydraulic cylinder
2	Actuator cable
3	Actuator cable
4	Actuator cable *
5	Actuator cable *
6	Power cord
7	Power cord

* – enter width

User manual:

AFWG - AVANT grapple fork

SFWG - MINI grapple fork 1 actuator

SFWG - MINI grapple fork 2 actuators

MFWG - Grapple fork

XLFWG - XL grapple fork 1 jaw

XLFWG - XL grapple fork 2 jaws

FWGMV - Grapple fork 2 actuators

8. Warranty

WARRANTY CERTIFICATE

Serial No.	Type
Year of manufacture	Quality Control Department

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;
- Improper operation, maintenance or storage of the machine, in particular, contrary to the User Manual;
- Repairs carried out by unauthorised persons without the consent of the manufacturer;
- Introducing design changes without consulting the manufacturer;

The warranty certificate is valid provided it has the vendor's signature and the date of sale certified with the company stamp. It must not contain deletions and amendments by unauthorised persons.

A duplicate of the warranty certificate may be issued upon a written request after 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 file complaints within 14 days from the date of damage/defect directly to the vendor.

The manufacturer will carry out warranty repairs within 14 days from the date of the complaint.

The warranty will be extended by the repair time counted from the date of the complaint until to the date of completion of the service if the defect prevents the use of the machine.

The warranty shall not cover the hydraulic lines of the machine.

Date of sale: _____
(Day, month, year)

(signature and stamp of the point of sale)

User manual:

AFWG - AVANT grapple fork

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SFWG - MINI grapple fork 2 actuators

MFWG - Grapple fork

XLFWG - XL grapple fork 1 jaw

XLFWG - XL grapple fork 2 jaws

FWGMV - Grapple fork 2 actuators

WARRANTY REPAIRS RECORDS

Filled in by the manufacturer

Date of complaint claim: _____
The scope of repair and parts used: _____

Date of complaint processing:

Warranty extended until: _____

_____ (signature and stamp of the service)

Date of complaint claim: _____
The scope of repair and parts used: _____

Date of complaint processing:

Warranty extended until: _____

_____ (signature and stamp of the service)

Date of complaint claim: _____
The scope of repair and parts used: _____

Date of complaint processing:

Warranty extended until: _____

_____ (signature and stamp of the service)

Date of complaint claim: _____
The scope of repair and parts used: _____

Date of complaint processing:

Warranty extended until: _____

_____ (signature and stamp of the service)

User manual:

AFWG - AVANT grapple fork
SFWG - MINI grapple fork 1 actuator
SFWG - MINI grapple fork 2 actuators
MFWG - Grapple fork

XLFWG - XL grapple fork 1 jaw
XLFWG - XL grapple fork 2 jaws
FWGMV - Grapple fork 2 actuators

9. Declaration of Conformity

CE Declaration of Conformity

Manufacturer: **Kołaszewski Sp. z o.o.**

ul. Lęborska 22
77-100 Bytów

hereby declares that the machine:

Machine name: **Grapple fork**

Machine type, INDEX: AFWG, MFWG, SFWG, XLFWG, FWGMV

**) delete as appropriate*

Serial number:

to which the declaration refers, meets the requirements of:

DIRECTIVES

- **Machinery Directive 2006/42/EC** of 17 May 2006 (OJ L 157 of 9 June 2006, p. 24)

HARMONISED STANDARDS

- PN-EN ISO 4254-1: 2016-02E Agricultural machinery. Safety. Part 1: General requirements
- PN-EN 12100: 2012 Safety of machinery. General principles for design. Risk assessment and risk reduction
- PN-ISO 11684: 1998 Tractors, machinery for agriculture and forestry, powered lawn and garden equipment - Safety labels - General principles
- PN-ISO 4413: 2011 Hydraulic drives and controls. General rules and safety requirements for systems and their components

This declaration of conformity shall cease to be valid, if the machine is modified in any way without the consent of the manufacturer.

.....
place, date

.....
Full name and signature of an authorised person

User manual:

AFWG - AVANT grapple fork

SFWG - MINI grapple fork 1 actuator

SFWG - MINI grapple fork 2 actuators

MFWG - Grapple fork

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