

Manufacturer:

UNIFOREST

d.o.o.

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UNIFOREST

FOR

TONGS FOR LOGS

SCORPION

1300 F / 1800 F

INSTRUCTIONS FOR USE SPARE PARTS LIST

CE

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1. Introduction

These instructions for use are intended for personnel, who must read, understand and follow the conditions, especially chapter "Safety instructions", and who is in charge of installation, start-up, control, and maintenance of the machine and repairs of the machine. Complete technical documentation is an integral part of the machine and must always be available at the site of use. Each person in charge of the machine must be familiar with instructions for use in detail.

We recommend that you read the instructions for use before using the machine thoroughly, because we accept no responsibility for damages and operation faults, which are result of non-compliance with these instructions!

If you have any problems, contact the company Uniforest, where their experts will be happy to help and give advice. Regular maintenance and timely replacement of worn or damaged parts significantly increases the life-span of tongs for logs. We reserve the right to changes of technical drawings and information in these instructions for use, which are required for improvement of the machine.

2. Area of use

Pliers for wood may be used only for routine use in forestry work, for long and short timber, because of the economy of loading wood. Pliers for wood may be used only for purposes that are given in "Technical documentation". Before you use the machine for any other purposes, please consult with specialists of the company Uniforest, otherwise we are unable to recognize free repairs during the warranty period.

3. Technical data

The machine is designed to transport more logs at once. Connection on a tractor: hydraulic lift, loader The place of handling: from the tractor Drive: through hydraulic equipment on the tractor Connections for hydraulic power: through the tractor hydraulic lines

Type of the pliers for timber		Scorpion 1300 F	Scorpion 1800 F
For two – way flow	Mechanic rotator		1 X 2
For the circular flow	Hydraulic rotator	1 X 2	1 X 2

Hydraulic pressure: max. 200 bar

Tongs for logs – type	Scorpion 1300 F	Scorpion 1800 F
connection	Euro connection	Three-point and Euro connection
solenoid valve	<input type="checkbox"/>	<input type="checkbox"/> (loader)
max. width of gap	1300 mm	1800 mm
min. diameter of clamping	70 cm	80 cm
hydraulic rotator	<input checked="" type="checkbox"/>	<input type="checkbox"/>
mechanic rotator	<input type="checkbox"/>	<input checked="" type="checkbox"/>
tong force	85 kN (8.5 t) at 180 bar	95 kN (9.5 t) at 180 bar
total weight	216 kg	343 kg
length	1100 mm	1300 mm
width	1200 mm	1200 mm
height	1000 mm	1300 mm

■ Serial option

Sound level does not exceed the level of 70 dB.

4. Safety sign



This symbol is located in all safety warnings and instructions for use in machinery, which may lead to physical injury and where there is danger of a loss of life. Consider these warnings and be in such cases, extra careful. Beside the safety warnings in the instruction book, also consider general valid regulations about the safety and other clauses to prevent accidents.

5. Warning

ATTENTION!

Warning »ATTENTION« is located at the points in the instruction book, which should be particularly taken into account, because it warns on the guidelines, rules, warnings and because such a warning can prevent damage and destruction of the machine.

6. Safety instructions

The machine is produced in accordance with most recent achievements in technologies, which ensures high reliability of operation. The machine can be operated only by properly trained personnel in accordance with its purpose of use.

At the beginning of the shift, machine operator must check the operation of control and safety device, and also, during the shift, check the machine's state for visible faults.

Machine operator must immediately inform about any changes on the machine, which could jeopardize safety. Upon machine faults or disturbances, which could jeopardize safety, the machine operator must immediately stop the machine. Only qualified, trained and experienced personnel are allowed to use, maintain and repair the machine.

Determine explicitly, who is competent for machine start, control and maintenance, so there are no obscurities regarding competence.

Waive any work, which could affect the safety of the machine.

Machine operator must ensure that only authorized personnel uses the machine.

For safe operation of the machine, traffic regulations, safety regulations and accident prevention regulations always apply.

When the machine is in operation, persons not authorized are not allowed to stand in the work area of the machine. It is strictly forbidden for other persons to manually assist with log loading.

Ensure proper loading and unloading, so people are not exposed to danger of falling objects and objects, which could tip over, roll over or roll away.

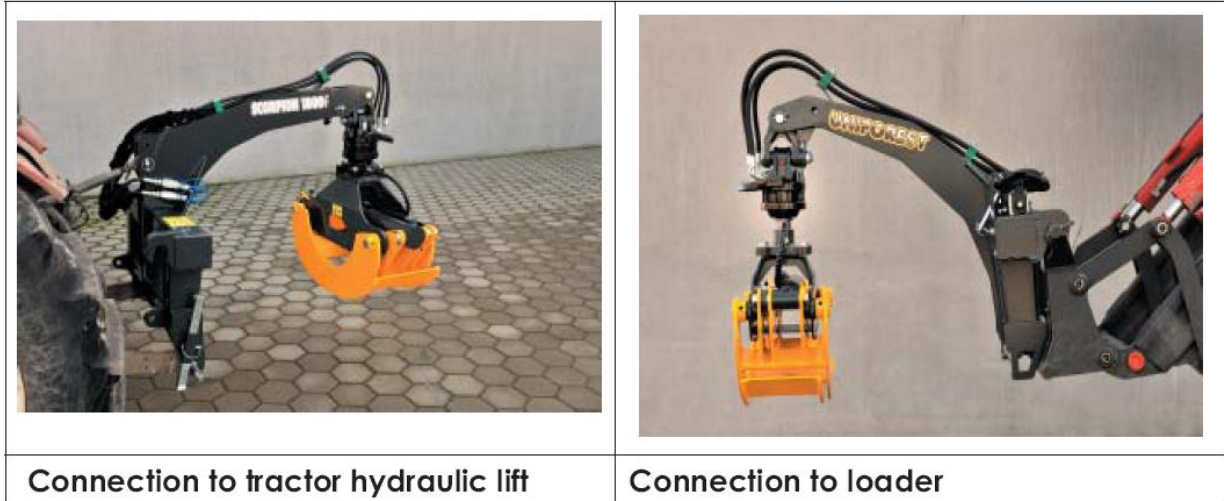
Transporting other persons on the machine is prohibited.

7. Safety patches



8. Connection – disconnection

The machine is constructed for connection to tractor hydraulic lift or loader, connected to tractor hydraulic lift.



8.1 Connection on a tractor

To tractor hydraulic lift

Move the tractor to the three – point connection of the pliers for timber, until the bolts of the three – point connection and the bolt holes on the lower liftable crossbars on a tractor do not match.

Be aware of the thing, that between the tractor and pliers for timber are not located any persons.

Insert the bolts in the holes and secure them with tractor pin.

The tractor must be switched off, when the driver switches control lever on hydraulics.

Set up upper lever 1 to the desired length and fasten and secure him on the upper part of the three – point connection (Figure 1). Connect hydraulic lines on a tractor.

Move support leg 3 in transport position (figure 2).

To loader

The procedure is identical as for any other tool for loader, only here you have to connect tongs for logs. Between the tractor and tongs for logs no persons, animals or object are allowed. The tractor must be shut down, when the driver connects the hydraulics.

Connect hydraulic line to tongs for logs according to hydraulic version of tongs. Move support leg 2 in transport position (figure 2).

Pliers for timber after the finished work always put down in a closed condition.

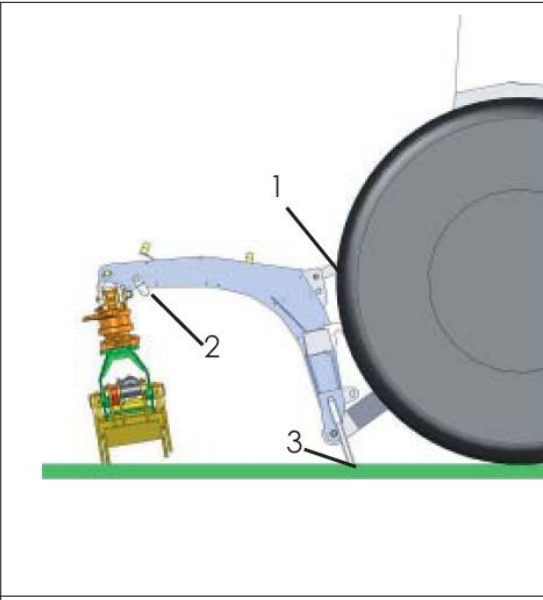


Figure 1: Connection on a tractor

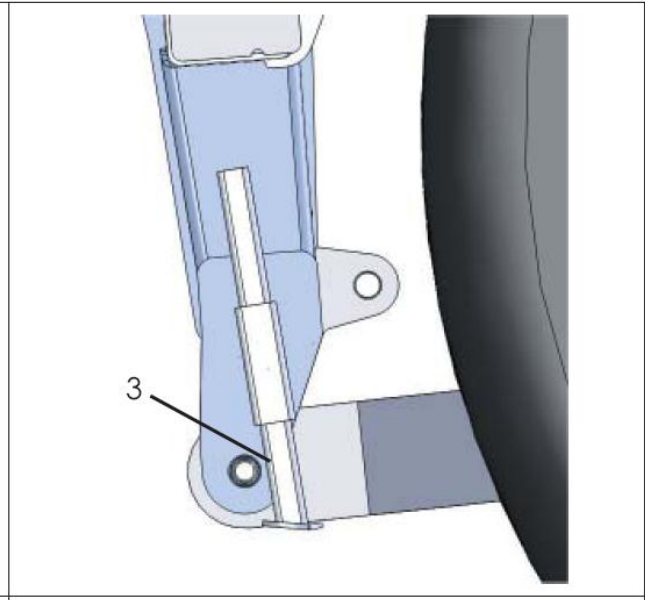


Figure 2: support leg in transport position

8.2 Disconnection of a tractor

From tractor hydraulic lift

Move support leg 3 in support position (figure 1). Pliers for timber before disconnecting them from the tractor, always put down on a flat and solid ground in the closed condition. First check, whether the pliers are secured against the movement with bolt 2 (Figure 2). Disconnect the hydraulic hoses, place protection on the quick thimbles and insert them into the place on connection. In the case of the steering console, insert her on a supposed place on a connection. Upper control lever loosen and disconnect. Lower tractor arms disconnect.

From loader

Move support leg 3 in support position (figure 1). Put tongs for logs on flat, solid ground, when they are closed. Check beforehand that the tongs are secured against movement with bolt 2 (figure 1).

Disconnect hydraulic lines, set protections for quick clamps and put them on the storage place on the connection. Disconnect from the loader.

9. Handling

Pliers for wood are handled through steering device of a tractor or with solenoid valve.

ATTENTION!

By using the pliers handle hydraulic cylinders and hydraulic rotator unjerky and with appropriate low flows to 40l/min. Do not overload the pliers above the allowed weight.

Carrying the trunks always perform as the instruction book defines.

Vital parts always check before use, so that there are no possible injuries.

By injuries that would arise because of noncompliance of the machines instruction book, warranty terms do not valid and the manufacturer eliminates defect at the expense of the buyer.

9.1 Transport



When the pliers for wood are operating, unauthorized persons must not be located in the range of a working machine. When driving on public road it is necessary to install a warning plate on the pliers and the lights should be switched on, we must also secure the swinging with the bolt 1 (Figure 4).

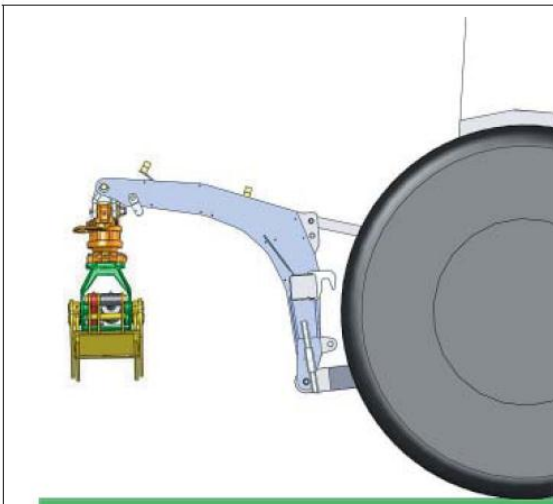


Figure 3: Transport position of the pliers (closed pliers)

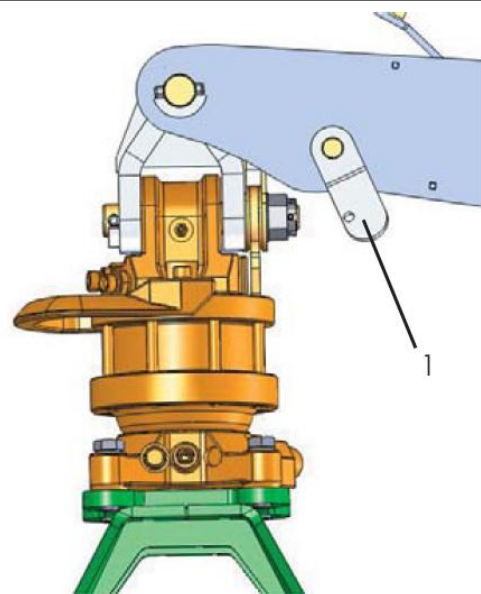
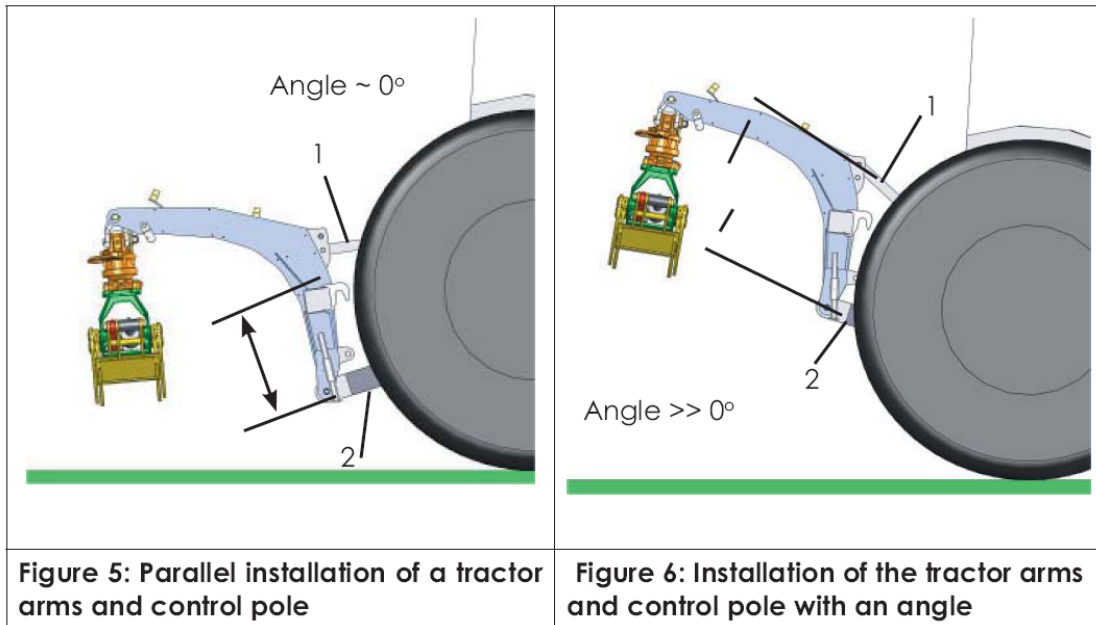


Figure 4: Prevention that the pliers swing during the transport with bolt and tractor cork (1)

9.2 Angular setting between tractor arms and controlling pole

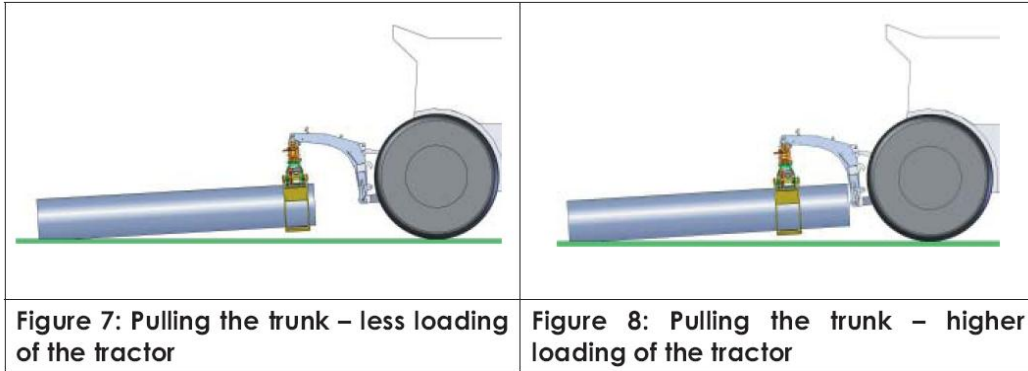
Pliers are designed to draw trunks and occasionally loading. According to the purpose of use, it is necessary to adjust the height of fasten the tractor arms on pliers as well as upper steering lever of the three – point connection.

- When you want to use pliers to draw trunks, set the tractor arms 1 and upper steering pole 2 parallel, as much as possible (Figure 5).
- But if you want to load with pliers, then the angle between tractor arms 1 and upper steering pole 2 should be as bigger as it can (Figure 6).



9.3 Pulling trunks

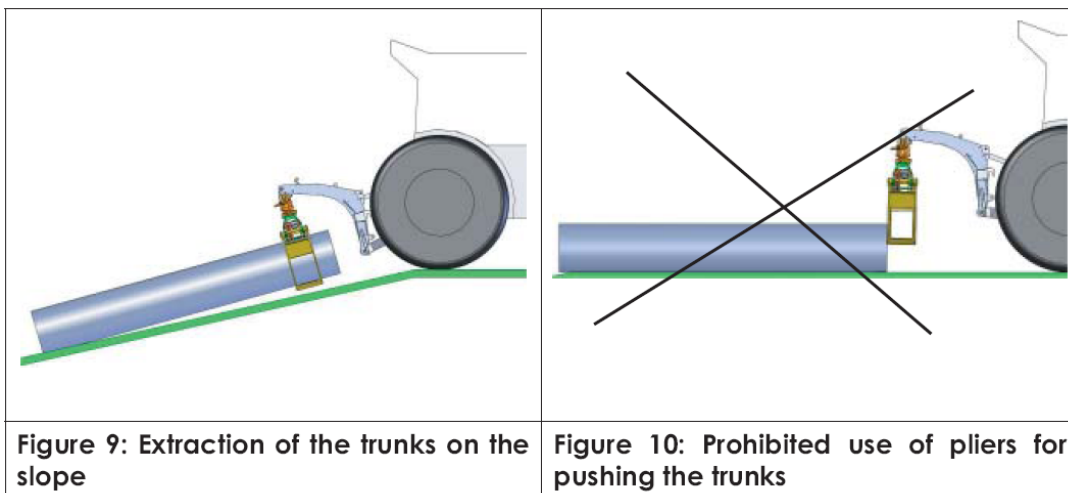
When using pliers for pulling trunks, it is always necessary first to remove bolt for protection during the transport. The pulling process you can perform on the following ways (Figure 7) and (Figure 8).



Dragging trunks on the slope always perform by pulling perpendicular to the slope (Figure 9). Otherwise, it can come to a tractor roll.

ATTENTION! 

With the pliers it is prohibited pushing the trunks (Figure 10). Risk of plier's injury and danger of uncontrolled roll of trunks. The cause of damage on the pliers it is possible unambiguously to identify and for the damage the manufacturer does not guarantee.



9.4 Carrying trunks and loading

Also by loading or carrying the trunks, it is always necessary first to remove the bolt for protection during the transport. Carrying the trunks you can only perform on a way shown below (Figure 11) and with a maximum speed of up to 7 km/h.

Maximum load in carrying and loading is determined by the weight of 600 kg and a maximum trunk length of 4 m.

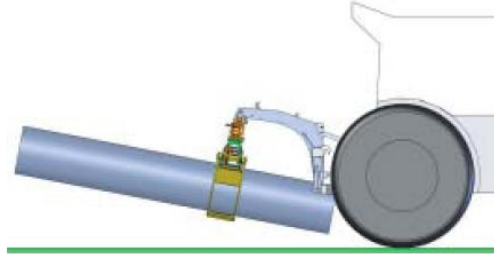


Figure 11: Proper way to carry trunks – the maximum speed of up to 7km/h

10 Maintenance and care

ATTENTION!

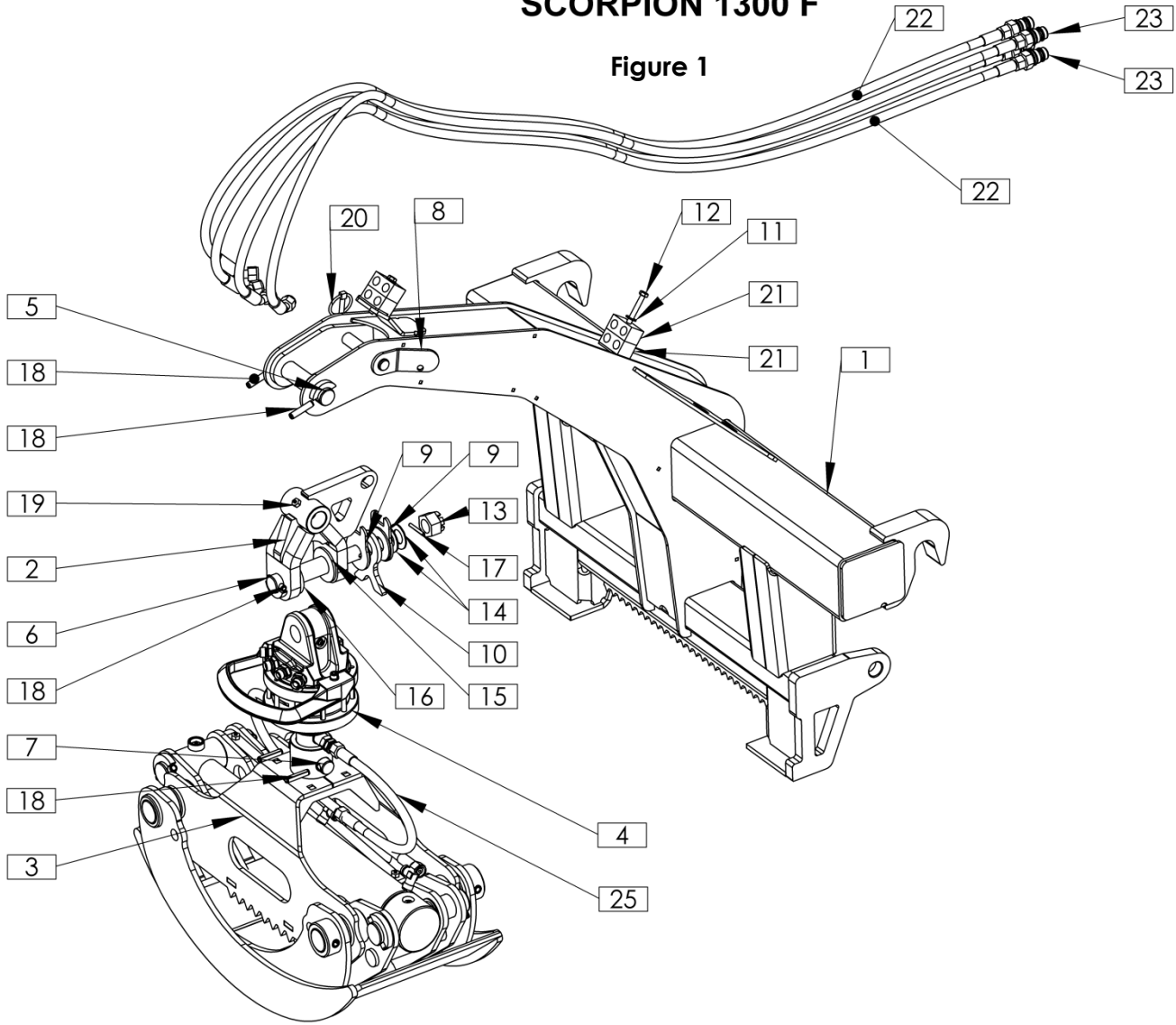
After 6-8 operating hours the screws on a revolvable rotor or on a rotor of flange should be tighten.

Moving parts of the machine are equipped with Oilers, which should be according to load and use, oiled every 4 weeks.

Lubrication is performed regularly.

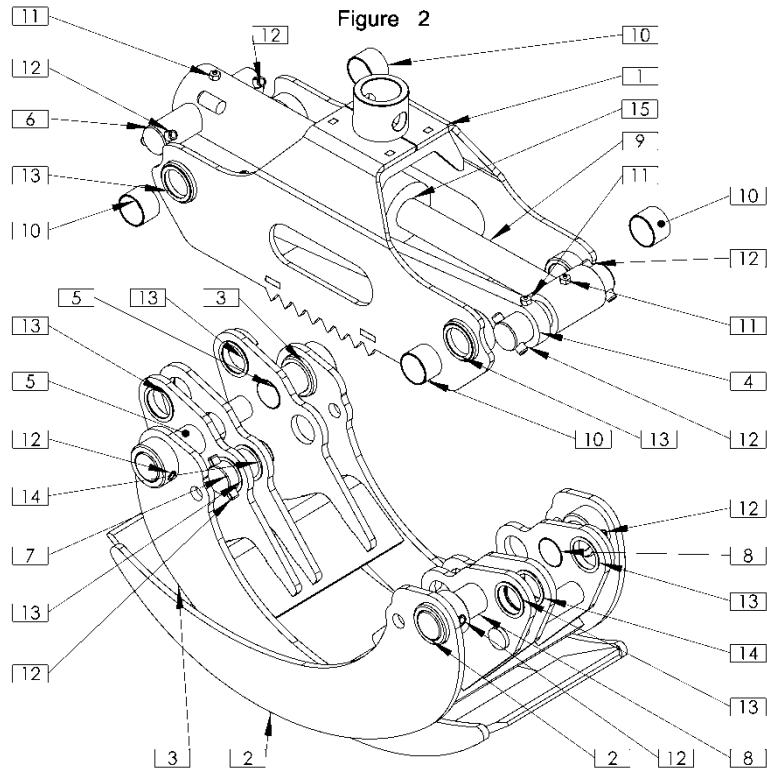
SCORPION 1300 F

Figure 1



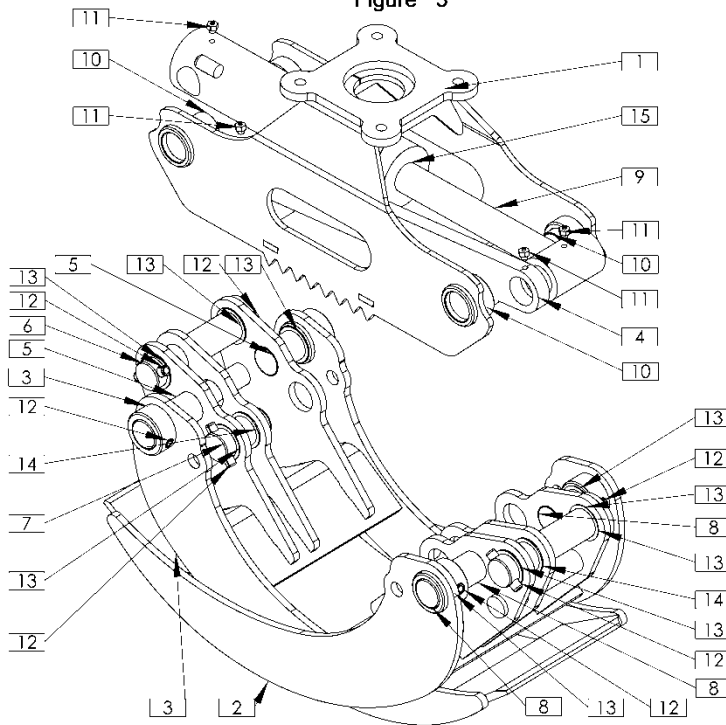
SCORPION 1300 F

Figure 2



SCORPION 1300 F

Figure 3



SCORPION 1300 F

Figure 5

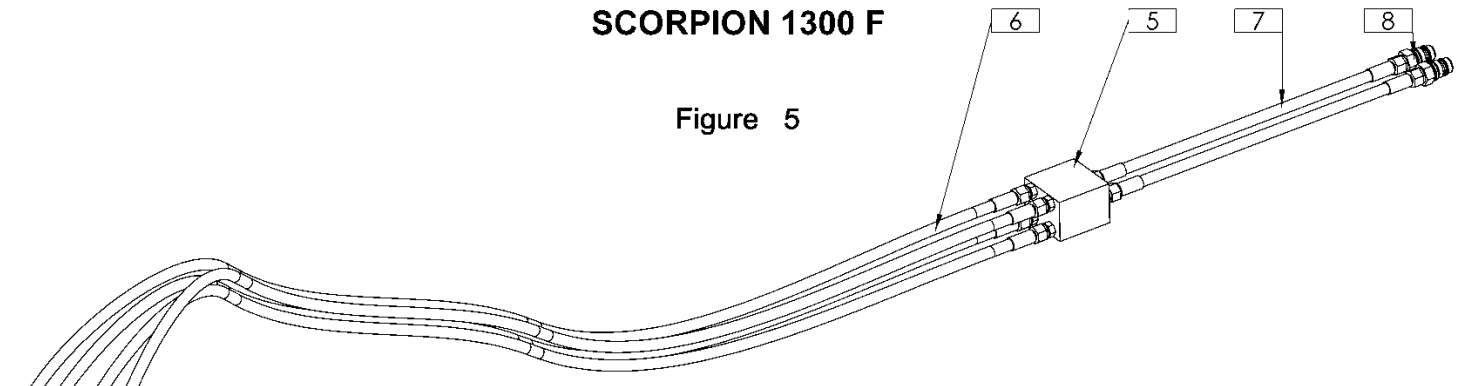
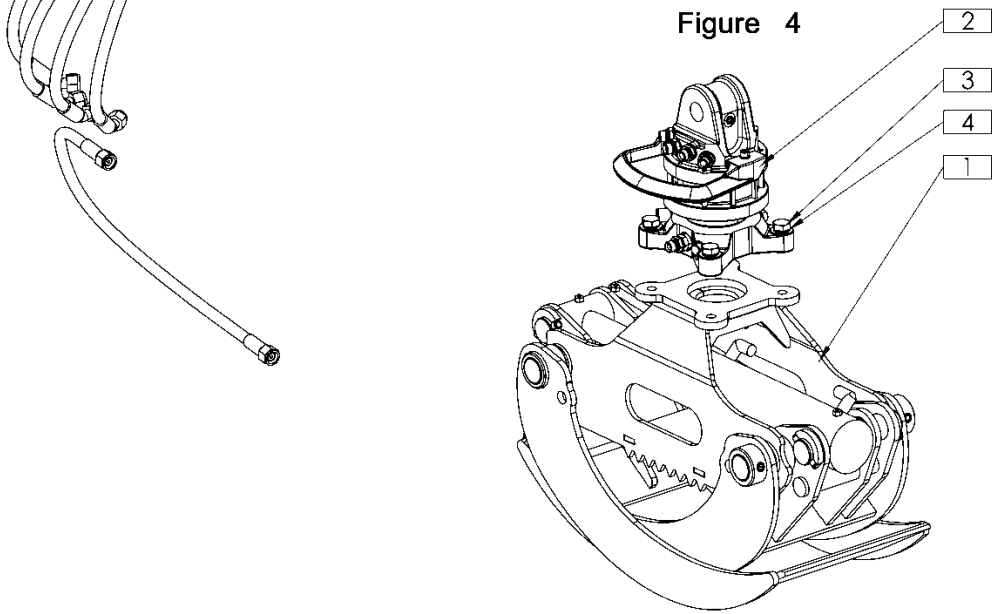
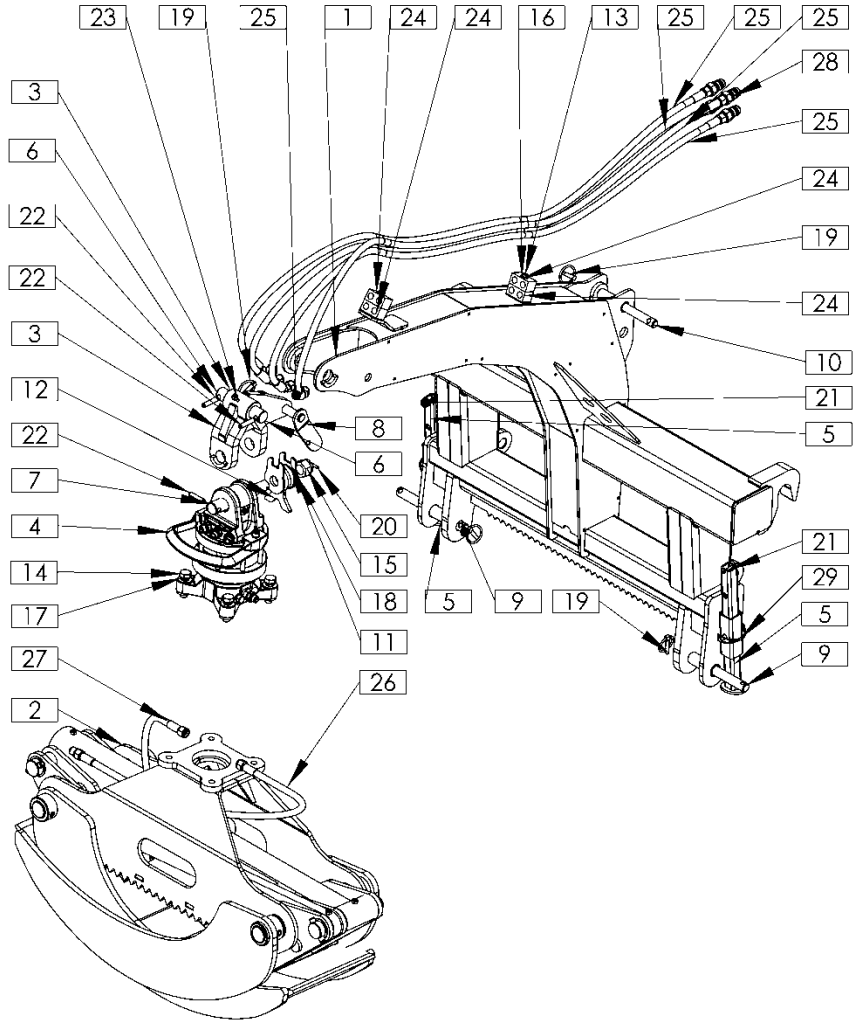


Figure 4



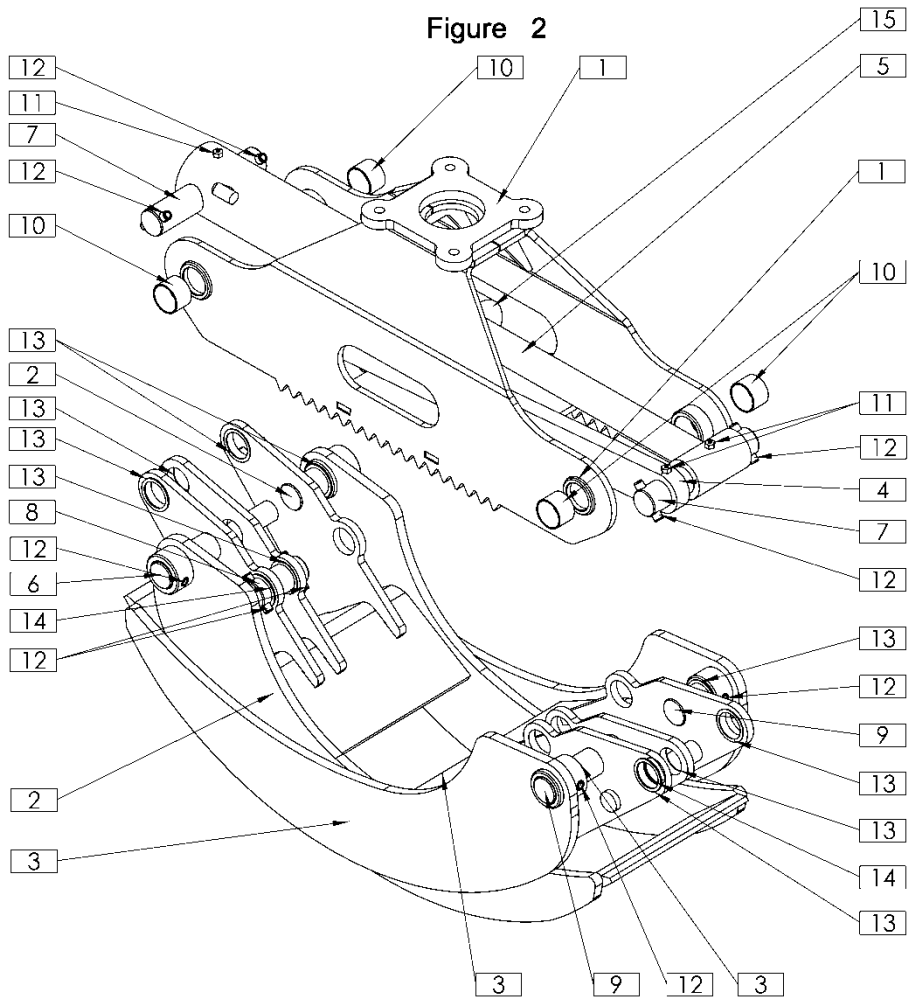
SCORPION 1800 F

Figure 1



SCORPION 1800 F

Figure 2



**SPARE PARTS LIST
LOG GRIPS SCORPION 1300 F**

Figure 1

Pos.	Title	Number of parts	Number of the plan or the standard
1	Connection var.	1	202.01.00.0
2	Brewed Handhold of the pliers	1	202.04.00.0
3	Tongs with bushing set	1	202.05.50.0
4	Hydraulic rotator GR 465	1	BALTROTORS
5	Bolt 1	1	202.02.16.0
6	Bolt 6	1	201.02.17.0
7	Bolt	1	202.04.05.0
8	Brewed Bolt	1	202.1.21.0
9	Break	2	201.10.05.0
10	Break of the hydraulic rotator	1	201.10.06.0
11	Washer SKM 8	2	/
12	Screw M 8 x 65 Zn.	2	ISO 4017
13	Nut M24 Zn.	1	DIN 935
14	Spring in the shape of the plate C 50	2	DIN 2093
15	Washer of rotor 1	1	202.04.03.0
16	Washer of rotor 2	1	202.04.04.0
17	Flexible pin 5x40	1	ISO 8752
18	Flexible pin 10x60	5	ISO 8752
19	OILER AM 8X1	1	DIN 71412
20	Tractor cork 8 x 45	1	201.01.23.0
21	Attachment of the pipe 2D 215/15 PP	4	
22	Pipe 1SN DN 8 1900 A1/45° 3/8" A1 M18 x 1,5	4	
23	Thimble AMD M18X1,5 (men's)	4	
24	Pipe 1SN DN 8 700 A1 M18 x 1,5 A1 3/8"	1	
25	Pipe 1SN DN 8 550 A1 M18 x 1,5 A1 3/8"	1	

**SPARE PARTS LIST
LOG GRIPS SCORPION 1300 F**

Figure 2

Pos.	Title	Number of parts	Number of the plan or the standard
1	Frame of the pliers	1	201.05.07.0
2	Inner arm	1	201.05.20.0
3	Outer arm	1	201.05.15.0
4	Bond	1	201.05.17.0
5	Bolt10	2	201.05.23.0
6	Bolt11	2	201.05.24.0
7	Bolt 12	1	201.05.25.0
8	Bolt 13	2	201.05.26.0
9	Cylinder 75/40 - 225	1	201.05.30.0
10	Sleeve PAP 4030 - P10	4	INA (SKF)
11	Oiler AM 8X1	4	DIN 71412
12	Flexible pin 13x60	10	ISO 8752
13	Washer 40x50x1	16	DIN 988
14	Washer 40x50x2	6	DIN 988
15	Seal of hydraulic cylinder kpl.	1	

Figure 2

Pos.	Title	Number of parts	Number of the plan or the standard
1	Tongs set	1	202.05.00.0
2	Rotator GR 30 PF	1	BALTROTORS
3	Screw M 16 x 30 Zn.	4	ISO 4017

Figure 3

Pos.	Title	Number of parts	Number of the plan or the standard
5	Hydraulic unit	1	
6	Hose 1SN DN 8 1200 A1/45° 3/8" A1 M18X1,5	4	
7	Hose 1SN DN 8 700 A1 M18x1,5 A1 M18x1,5	2	
8	Quick clamp AMD M18X1,5 (male)	2	

**SPARE PARTS LIST
LOG GRIPS SCORPION 1800 F**

Figure 1

Pos.	Title	Number of parts	Number of the plan or the standard
1	Connection var.	1	205.01.00.0
2	Pliers kpl.	1	201.05.00.0
3	Brewed Handhold of the pliers	1	201.04.00.0
4	Hydraulic rotator GR 465	1	BALTROTORS
5	Support leg var	2	205.01.25.0 (120.01.30.0)
6	Bolt 5	1	201.02.16.0
7	Bolt 6	1	201.02.17.0
8	Brewed Bolt	1	201.01.21.A
9	Lower Bolt	2	205.01.029.0
10	Upper bolt	1	205.01.030.0
11	Break	2	201.10.05.0
12	Break of the hydraulic rotator	2	201.10.06.0
13	Screw M 8 x 65 Zn.	2	ISO 4017
14	Screw M 16 x 55 Zn.	4	ISO 4017
15	Nut M24	2	DIN 935
16	Washer SKM 8	2	ISO 4017
17	Washer SKM 16	4	ISO 4017
18	Spring in the shape of the plate C 50	1	DIN 2093
19	Tractor cork 8 x 45	4	201.01.23.0
20	Flexible pin 5x40	1	ISO 8752
21	Flexible pin 6x40	2	ISO 8752
22	Flexible pin 10x60	3	ISO 8752
23	OILER AM 8X1	1	DIN 71412
24	Attachment of the pipe 2D 215/15 PP	4	800.01.02.0
25	Pipe 1SN DN 8 2500 A1/45° 3/8" A1 M18x 1,5	4	
26	Pipe 1SN DN 8 900 A1 M18x1,5 A1 3/8	1	
27	Pipe 1SN DN 8 700 A1 M18x1,5 A1 3/8	4	
28	Thimble AMD M18X1,5 (men's)	4	
29	Safety plug APRAM art. 478	2	

**SPARE PARTS LIST
LOG GRIPS SCORPION 1800 F**

Figure 2

Pos.	Title	Number of parts	Number of the plan or the standard
1	Frame of the pliers	1	201.05.07.0
2	Inner arm	1	201.05.20.0
3	Outer arm	1	201.05.15.0
4	Bond	1	201.05.17.0
5	Cylinder 85/45 - 380	1	201.05.30.0
6	Bolt10	2	201.05.23.0
7	Bolt 11	2	201.05.24.0
8	Bolt 12	1	201.05.25.0
9	Bolt 13	2	201.05.26.0
10	Sleeve PAP 4030 - P10	4	INA (SKF)
11	Oiler AM 8X1	4	DIN 71412
12	Flexible pin 13x60	10	ISO 8752
13	Washer 40x50x1	13	DIN 988
14	Washer 40x50x2	6	DIN 988
15	Seal of hydraulic cylinder kpl.	1	

**EC – Declaration of conformity
pursuant to the EC Directive 2006/42/EC**

We

UNIFOREST d.o.o.

Dobriša vas 14a,
3301 PETROVČE, SLOVENIA

Mr. Marko Polak, BA, Uniforest, Dobriša vas 14a, 3301 Petrovče

Are declaring with full responsibility that the product:

**LOG GRIPS
SCORPION
1300 F / 1800 F**

is meeting all basic safety and health requirements of the EC directive 2006/42/EC.

The following standards and / or technical regulations were used in order to appropriately implement the above mentioned safety and health requirement of the EC directives:

EN ISO 12100/2010 EN ISO 13857/2008
EN ISO 4254-1 2009 EN ISO 4413/2010

Petrovče, 21.12.2011

**General Manager
Drago Pintar, BA**

Dobriša vas 14, SI-3301 PETROVČE