Manufacturer:

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Instructions for use

FORESTRY WINCHES
30M / 35M / 40eco

Instructions for safe work Spare parts list

Dear customer!

We are pleased that you decided to purchase our machine. Forestry winch is a forestry machine of modern design, whose construction enables effective and safe work in the forest. Work in the forest can only be safe if you follow the instructions for safe work and use. Upon following all instructions, the machine will operate flawlessly, and you will avoid unnecessary costs. We recommend reading the instructions carefully. If you are not sure about something, you can also contact us. We wish you safe work.

1. Index

2. *Intended purpose*

The machine is intended exclusively for normal work in the forest. Any other use outside of this framework holds as unintended. The manufacturer is not liable for damages, resulting from unintended use. In this case, the user is the sole bearer of risk. Intended use also includes regarding operational, service and maintenance conditions, which are prescribed by the manufacturer. Only persons, who are trained and acquainted about the dangers and consequences, which can result from improper use, can operate the machine. Relevant safety regulations must also be followed, including generally valid safety-technical, occupational medicine and road traffic regulations. Own interference and modifications of the machine exclude the manufacturer's liability for damages resulting from this.

3. *Technical data:*

	Unit	30M	35M	40eco
Work group	EM	1	1	1,2
Towing force	lbs	6600	7700	8800
Brake force	lbs	8300	8300	11200
Wire rope medium speed	Ft/sec	2	3	3
Wire rope maximum length	Ft x inch	263'x5/16	377'x5/16	377'x5/16
	Ft x inch	213'x 9mm	295'x 9mm	295'x 9mm
Wire rope length (standard)	Ft x inch	165'x3/8	230'x3/8	196'x7/16
Tractor required power	HP	16/34	16-45	30-54
Calculated tear force	lbs	13500	15700	18000
Rated strength	lbs	13500	15700	18000
Width	ft	3.3	3.9	4.6
Length	ft	1.4	1.5	4.5
Height without protective net	ft	3.4	3.8	3.8
Height with protective net	ft	5.9	6.6	6.6
Weight (without wire rope)	lbs	407	540	518
Power take-off RPM	min-1	max 540	max 540	max 540

INSTRUCTIONS FOR SAFE WORK

When operating the winch, you must devote maximum attention to safety! To prevent accidents, carefully read and follow the instructions below.

1. General:

1. Apart from the instructions in this user manual you should also observe all general safety and accident preventing regulations.

2. When working with the winch, it is necessary to comply with the rules of safety at work.
3. Only persons, who are older than 18, are allowed to work with the winch.
4. Safety and warning plates on the machine provide important instructions for safe use. Observe them for your safety.
5. The winch or its flawless operation should be checked before every use or at least once every working day. Defects should be removed by an expert. Before first use or after significant alterations and at least once a year the winch must be examined by an expert.
6. When using public transport routes observe traffic signs and regulations.
7. When using the winch wear personal protective equipment(helmet, gloves, appropriate footwear,...).
8. Before starting and driving check the surrounding area (children). Maintain adequate visibility.
9. Riding on the winch during transport is not allowed.
10. Connect the winch according to the instructions.
11. For on road travel the machine must be in the following condition. If the winch covers the rear lights of the tractor and they are not visible during transport on public roads, install additional lights on the winch.
12. Adjust the driving speed to the environmental conditions. When driving up or down or across a slope avoid sudden turning of the steering wheel.
13. Do not stand in the danger area.

14. If the tractor is not blocked against moving with a brake or wheel blocks, no person should be standing between the tractor and the winch.

15. Do not touch the winch until every part of the winch has stopped.
16. Check mounting bolts regularly.
17. Before use the winch must be visually inspected. At least once a year, the winch must be inspected by a professionally qualified person.
18. During any work on the winch you must turn the tractor off.

19. It is forbidden to remove the safety devices from the winch.
20. Use a tow rope of adequate strength and quality (see the factory plate).
21. A damaged wire rope must be replaced immediately.
22. It it necessary to use a wire rope of an appropriate lenght. When you wind the rope up, a distance of 1,5 of rope diameter to outer diameter of the drum should stay on the drum. When you unreel the rope, a minimum of 3 rope wraps should stay on the drum.
23. The assistant is not allowed to connect load on the winch until he has informed the tractor driver about it.
24. It is especially dangerous to stand next to the tree that you are about to pull (Figure 1).
25. When using a relay pulley there is a triangular danger area, where you are not allowed to stay during the tow (Figure 2).

Figure 1

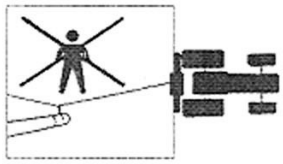
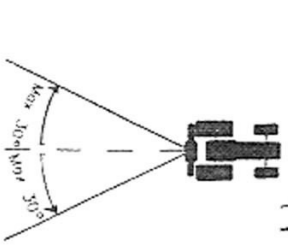


Figure 2

26. When towing observe the maximum allowed angle of 30° (Figure 3).
27. On uneven terrain or when not observing the maximum allowed towing angle there is a danger of the winch rolling over (Figure 6).



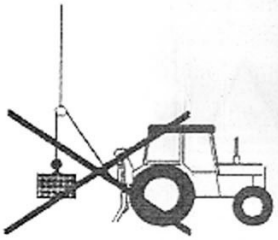
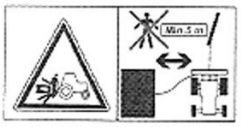


Figure 3 Figure 4 Figure 5

28. Do not use the winch for unintended purposes (lifting loads, etc.).(Figure 5)
29. Tractor driver and assistant must continuously communicate during their work.
30. The winch operator must continuosly observe the load during the tow. If this is not possible due to the configuration of the terrain, the assistant should help.
31. The tractor to which the winch is connected to must have a minimum tyre profile which still meets the traffic regulations. Otherwise the wheels must be fitted with snow chains. Chains are also obligatory when working in snow and ice.
32. When disconnecting the winch, you first need to choose an appropriate hard and flat surface. Fix the winch by means of support legs. Lean the drive shaft on the prepared holder.
33. In the area of the three point linkage there is a danger of injuries due to compression or crushing.

34. The winch can be operated only from a safe place from which the load, wire rope, rope hook or the winch itself do not pose a threat to the operator. A safe place can also be the tractor seat if the winch has a safety net of sufficient size. When operating the winch outside the tractor seat the operator must be provided with an appropriate protection, e.g. the tractor itself, secure location at a sufficient distance from the vehicle, e.g. behind a tree. Logs can be monitored from the side next to the connection and shorter timber can be monitored diagonally behind the load. (See Figure 6).



35. During the tow, it is forbidden to stand between the load and the winch as well as in the danger area between the winch, relay pulley and load. (See picture 7).

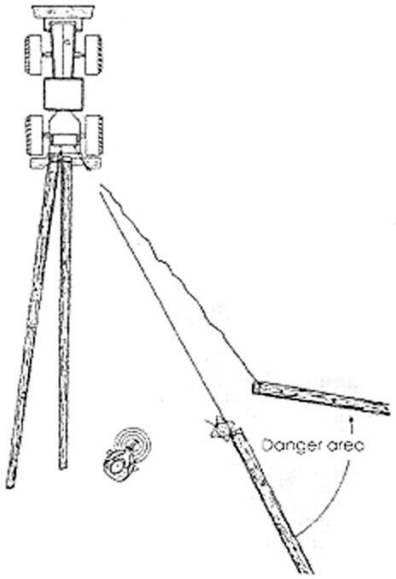


Figure 6

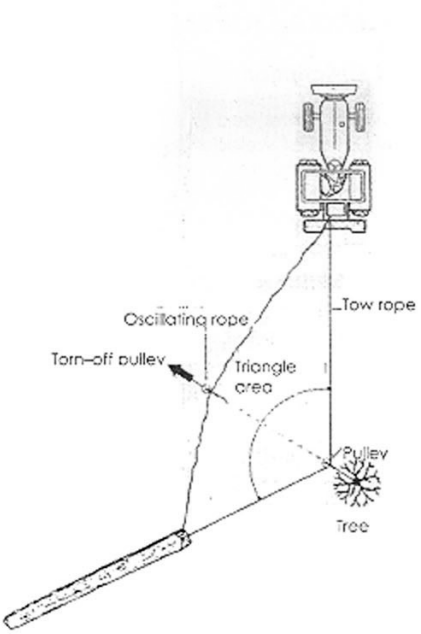


Figure 7

2. *Power take off (PTO)*

1. Only use such PTO shafts which are recommended by the manufacturer.
2. The PTO shaft protection pipes, protective funnels and attachment protection must be mounted on the machine and be in perfect condition.
3. Observe the recommended pipe protection in transport and working position.
4. The PTO shaft can only be connected or disconnected, when the PTO attachment is turned off, the engine has stopped and the ignition key has been removed.
5. The PTO shaft must always be properly mounted and protected.
6. Secure the PTO shaft against rotating with a chain.
7. Before switching on the PTO shaft on the tractor make sure that the chosen speed and direction of rotation match the requirements from the chapter Technical data.
8. Before switching on the PTO shaft make sure no person is standing in the danger area of the machine. This rule must also be observed during machine operation.
9. Never switch on the PTO shaft when the engine is turned off.
10. Put the disconnected PTO shaft on the intended holder.

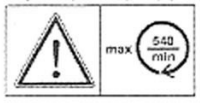
INSTRUCTIONS FOR USE

1. Description

The winch is intended for towing of cut-down timber from the forest and timber ramping. It is constructed of welded housing, drive mechanism, clutch, drum with wire rope, brake and diverting pulley. With the help of wire rope, the timber is towed to the ploughing attachment and attached on the grooves on the winch housing with forestry chains. Then, the timber can be transported to the place, where other transport means have access.

REQUIRED EQUIPMENT OF THE TRACTOR PTO shaft with chosen gear ratio, max. 540 RPM. Three-point hitch of I and II category.

Maximum number of revolutions and direction of tractor PTO shaft rotation is 540 min^{-1}.



PTO SHAFT ADJUSTMENT

Length of PTO shaft needs to be adjusted for different tractors (figure 6). For winch 30M/35M, it is appropriate to use a PTO shaft, torque max. 355 Nm, type W 200E, for 40eco torque max. 500 Nm, type W 300E Walterscheid.

Ascertain the accurate length in the following manner:

1. Shut down the tractor.
2. Connect the machine to the tractor.
3. Extract the PTO shaft apart and connect the individual shaft halves to the tractor and machine and compare them crosswise and mark them (figure 8.1).
4. Shorten external and internal plastic protection pipes (figure 8.2).
5. Shorten external and internal slide profiles with the same distance as plastic protection pipes (figure 8.3).
6. Crop the pipe end, remove fillings and grease the slide positions well (figure 8.4).

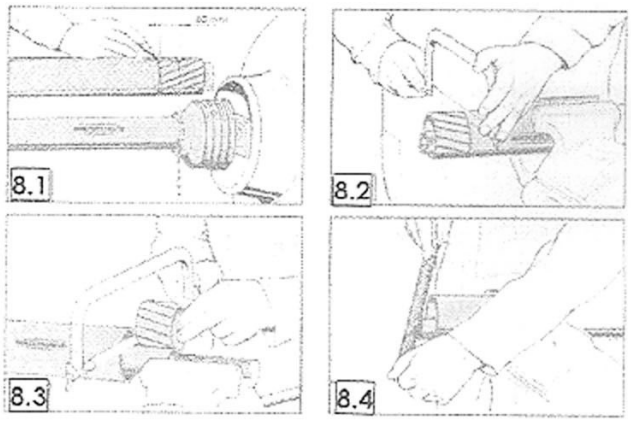


Figure 8

2. *Tractor mounting*

When connecting the winch, do not stand in the danger zone!

Forestry winch can be connected to any tractor, which has a three-point hitch, with connection frame of category I or II. Appropriate construction also enables easy connection to the tractor with automatic connection rods. Connect the prescribed PTO shaft and secure PTO protection with a hang chain. Be careful that the PTO clicks into place on both connection points!

For transfer of torque from the tractor to the winch, it is advisable to use a PTO shaft with a clutch. Once the winch is attached to the tractor, strengthen the stabilizers on the lower connection rods and level the winch with a hitch nut into position, so that the winch is tilted backwards for approximately 20 degrees.

3. *Wire rope unwinding*

Warning

Steel rope must be completely unwound before first use and wind it back on the generator drum under load.

For instance, we can do this so that we attach the rope to a standing tree and pull the tractor with slight braking to the tree. This procedure must be done also before trying to tow, if we towed downhill beforehand or if the rope was wound loosely during towing.

ATTENTION!
Loosely wound steel rope can be damaged (stuck, bent) at greater load, so that it is prohibited to use it again.
Warranty does not apply for a steel rope, which is damaged in such manner.

Once the winch is correctly connected, we start to unwind the wire rope. We do this so that we pull the wooden handle on the red rope (pos. 2, figure 11) and in this way move handle 1 in direction OFF (figure 10). Brake is released and the wire rope can be unwound. In case that we just installed the wire rope on the drum or we observe that it is not properly wound, we unwind the entire length of the wire rope and wind it strong, as given in the start of this chapter.

4. Winch controler

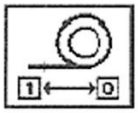


Figure 9

Lower the winch on the ground. In this manner, the winch strengthens on the surface by the board and we engage hand brake. Under no circumstances it is allowed to start working, before the winch is secure on the ground.
Before starting pulling the black rope, check that it is properly wound between the small pulleys (figure 12). This winding is correct when the handle (pos. 6) returns in the starting position OFF (figure 9), after we stop pulling the rope (pos. 5, figure 12).

If the rope is not properly wound, a situation may arise, where the winch towing does not stop on our wish, which can result in an accident.

Any intervention in the engagement mechanism, which would stop synchronous operation of the clutch and the brake, is prohibited. It is also prohibited to pull the red rope of the brake (pos. 2, figure 11) during towing.

During towing, it is prohibited to lift the hydraulic lever system (PTO shaft power takeoff failure may arise).

SETTINGS

1. Clutch

Proper setting of the clutch ensures optimal pulling force. Clutch is factory set upon winch testing, but it is required to set it again due to wear of the friction coating.

Readjustment is not allowed during warranty period!

Setting is done so that we mount a dynamometer on the black rope. If there is no dynamometer on disposal, spring scale with appropriate weighing range can also be used. Once the dynamometer (scale) is mounted, pull the rope with force of 350 N (77 lbs) and follow the handle position (pos. 6, figure 12). In plan view, this handle is shown on figure 12a. Nut on the main shaft (pos. 9, figure 12) regulates the handle position (pos. 6) as long as the handle starts moving away from the rest, but no more than 3/16"! If the nut is over-tightened (pos. 9, figure 12) and it has moved away from the rest for more than 3/16", the required axial force on the frictional surface of the clutch was reduced excessively. The winch will not gain required towing force or the frictional surface of the clutch will be damaged due to sliding.

2. Preliminary brake

With screw (pos. 10) and wing nut (pos. 11, figure 12) set the preliminary brake. Proper setting ensures that the wire rope does not automatically or too easily unwinds from the drum. This could cause too loose winding and damage to the wire rope, if the brake is unburdened or when unwinding. Preliminary brake is properly set when it is still possible to unwind the rope without greater effort. If we pull the rope uphill, it is possible to additionally unburden this brake, so the towing of rope is easier, but it must be returned to its original position afterwards.

3. Brake

Brake setting is done by a nut (pos. 3, figure 11). Brake handle (pos. 1) is in OFF position (figure 10). Firstly, use a fork wrench to set the nut (pos. 3). Distance between the roller (pos. 4) on the handle and the nut should be approximately 1/4". If the brake force is not sufficient, repeat the procedure and tighten the nut (pos. 3) again to the right. If the brake is set to excessive force, the unwinding of the rope is made more difficult. Therefore, the nut must be loosened somewhat to the left.

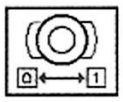


Figure 10

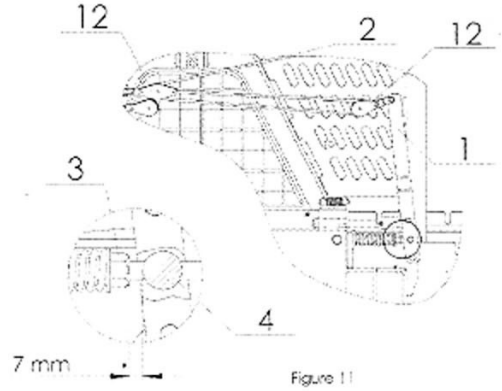


Figure 11

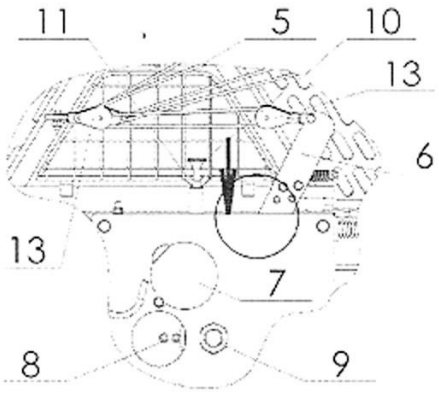


Figure 12

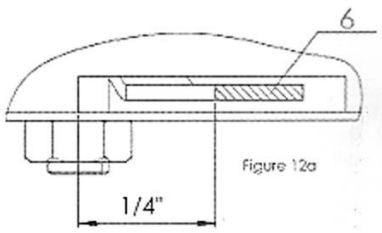


Figure 12a

4. Drive chain tensioning

After a certain period of operation, the drive chain stretches; therefore it must be checked frequently and tensioned, if required. It must be checked every 60 hours of operation. Tensioning is done according to the following procedure (figure 13). First, remove the protective sheet metal of the PTO shaft (pos. 1). Loosen both bolts (pos. 2) on the drive housing (pos. 3). Then tighten the nut (pos. 5). Tighten the nut so long that the drive chain is properly tensioned. Check this by hand – the chain must have a minimum oscillation. Tighten both bolts (pos. 2) and replace the protective sheet metal of the PTO shaft with bolts (pos. 1).

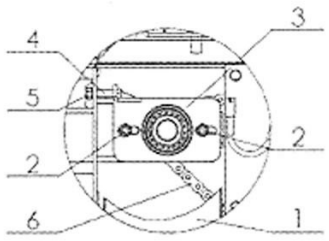
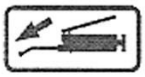


Figure 13

5. Wire rope assembly

First, remove the triangular protective net on the winch column. Then rotate the cover (pos. 7, figure 12) and rotate the drum in a position, which enables unscrewing of the bolt on the drum. Unscrew this bolt in a position, so that the groove on the drum is free. Insert the wire rope in the guide of the upper pulley and direct it through the upper pulley to the rope drum. Insert the rope in the groove and tighten the bolt (pos. 8). Then start to wind according to the procedure, which applies to towing. Once the entire length of the wire rope is wound, unwind it again and wind it again strongly according to the procedure, which is described in the chapter "Wire rope unwinding" to prevent damage to the rope.

MAINTENANCE



LUBRICATION Before proceeding with maintenance work, shut down the engine, remove the key and wait for all moving parts to stop.

There is a grease fitting on the winch, which enables greasing of the upper pulley and guide. The second grease fitting is on the housing of the lower pulley. Greasing is required every 60 hours of operation.

Non-frequent greasing can cause wear of slide elements and consequentially a defect, which is not subject to warranty terms!

Drive chain must be lubricated every 100 hours of operation. Lubricate it with spray for lubrication of chains or special grease, which does not melt at high temperatures, because the grease can come into contact with friction coating of the clutch.

Before lubrication remove protection of PTO shaft (pos. 1, figure 13) and lubricate this spot. Remove the chain before lubrication. After finishing lubrication, replace the protective sheet.

If grease comes into contact with friction coating of the clutch due do improper and excessive lubrication, this would mean a drastic reduction in towing force and consequentially it would be required to replace the blades of the clutch, which cannot be a subject of this warranty!

All other bearings on the winch are of closed type, therefore greasing is not necessary. PTO shaft is lubricated according to manufacturer's instructions.

REMOVAL OF FAULTS

Determined faults (malfunctions)	Cause	Procedure for removal of faults (trouble)
Insufficient pulling force.	Grease on frictional padding of the clutch.	Replace clutches.
	Burnt frictional padding of the clutch.	Clean padding with sandpaper or grind (thickness approximately 0.5 mm).
	Improper setting.	Setting according to instructions.
	Worn frictional padding of the clutch	Replace clutches.
	Incorrectly installed clutch.	Install according to technical documentation.
Insufficient brake force.	Improper setting.	Setting according to instructions for use.
	Grease on the padding of the brake belt.	Replace the brake belt.
	Damaged brake belt.	Replace the brake belt.
	Damaged brake mechanism.	Replace damaged parts.
	Other.	Contact service company.
Wire rope cannot be pulled out or the pulling is difficult.	Improper setting of pre-brake.	Setting according to instructions.
	Improper setting of brake	Setting according to instructions.
	Damaged or stuck wire rope	Pull out the rope with a tractor and, if required, install a new wire rope.
	Damaged brake belt.	Replace the brake belt.
	Brake handle is not in correct position.	Proceed according to instructions for use.
	Damaged or corroded engagement mechanism.	Grease the engagement mechanism with WD spray or, if required, replace the engagement mechanism.
	Other.	Contact service company.

Determined faults (malfunctions)	Cause	Procedure for removal of faults (trouble)
The winch pulls, despite the clutch being disengaged.	Improper setting.	Setting according to instructions.
	Crossed, wound rope for control of brake handle.	Installed the rope in parallel manner.
	Lever, connecting the brake handle, does not allow return in disengaged position.	Check the lever.
	Damaged engagement mechanism.	Repair or replace the engagement mechanism.
	Damaged winch drum.	Replacement or repair of the drum.
	Not enough clutch distance.	Setting according to instructions.
	Broken part of frictional padding on the clutch.	Replace clutches.
	Excessively tensioned drive chain.	Chain setting according to instructions.
The winch makes noise with operation.	Insufficiently tensioned drive chain.	Tension the chain, as described in the instructions.
	Damaged or worn bearings.	Replace bearings.

SPARE PARTS LIST

Forestry winches – 30M, 35M, 40ECO (image 1)

Pos.	Title	Type					
		30M		35M		40eco	
		Nr. of pcs.	Plan or standard number	Nr. of pcs.	Plan or standard number	Nr. of pcs.	Plan or standard number
1	Main frame	1	301.01.00.0	1	305.01.00.0	1	304.01.00.0
2	Brake band	1	301.06.00.0	1	305.06.00.0	1	305.06.00.0
3	Ball bearing 6308 2RS	/	/	3	DIN 628	3	DIN 628
4	Wire drum	1	301.05.00.0	1	305.05.00.0	1	305.05.00.0
5	Drum spring	1	301.00.30.0	1	502.00.30.0	1	502.00.30.0
6	Chain wheel with clutch z = 60	1	301.07.00.0	1	305.07.00.0	1	305.07.00.0
7	Chain Flexon 3/4" 12A1 - 71	1	DIN 8187	1	DIN 8187	1	DIN 8187
8	Chain assembly joint 3/4" E12A1	1	DIN 8187	1	DIN 8187	1	DIN 8187
9	Ball bearing 6008 ZZ	/	/	2	DIN 628	2	DIN 628
3, 9	Ball bearing 6306 ZZ	5	DIN 628	/	/	/	/
10	Spacer	1	301.07.13.0	1	305.07.13.0	1	305.07.13.0
11	Drum protection	1	301.01.10.A	1	305.01.10.0	1	305.01.10.0
12	Drum shaft	1	301.07.10.0	1	305.07.10.0	1	305.07.10.0
13	Trailer coupling	/	/	1	502.12.00.A	/	/
14	Coupling saftey pin	/	/	1	502.12.10.0	/	/
15	Coupling pin	/	/	1	502.00.25.0	/	/
16	Small cover	1	502.11.09.0	1	502.11.09.0	1	502.11.09.0
17	Cardan holder	1	502.11.08.0	1	502.11.08.0	1	502.11.08.0
18	Leg pin	1	502.00.13.0	1	502.00.13.0	1	502.00.13.0
19	Leg	1	301.00.10.0	1	305.00.10.0	1	305.00.10.0
20	Main cover	1	302.07.00.0	1	305.11.01.0	1	305.11.01.0
21	Clutch handle spring	1	502.07.06.0	1	502.11.25.0	1	502.11.25.0
22	Clutch cylinder	3	502.11.15.0	3	502.11.15.0	3	502.11.15.0
23	Clutch handle	1	301.11.20.0	1	301.11.20.0	1	301.11.20.0
24	Engagement frame	1	502.11.30.0	1	502.11.30.0	1	502.11.30.0
25	Double pulley - wide	1	502.00.43.0	1	502.00.43.0	1	502.00.43.0
26	Double pulley -narrow	1	502.00.41.0	1	502.00.41.0	1	502.00.41.0

Pos.	Title	Type					
		30M		35M		40eco	
		Nr. of pcs.	Plan or standard number	Nr. of pcs.	Plan or standard number	Nr. of pcs.	Plan or standard number
27	Clutch rope - black	1	301.00.55.0	1	301.00.55.0	1	301.00.55.0
28	Tension spring 1	1	502.06.52.0	1	502.06.52.0	1	502.06.52.0
29	Tension bolt 1	1	502.06.15.0	1	502.06.15.0	1	502.06.15.0
30	Brake band cylinder	1	502.06.08.0	1	502.06.08.0	1	502.06.08.0
31	Brake band pin	1	502.06.12.0	1	502.06.12.0	1	502.06.12.0
32	Brake band pad	2	305.06.04.0	2	305.06.04.0	2	305.06.04.0
33	Tube 16 x 1,5	1	305.06.07.0	1	305.06.07.0	1	305.06.07.0
34	Break handle pad	2	502.06.30.0	2	502.06.30.0	2	502.06.30.0
35	Push spring	1	502.06.35.0	1	502.06.35.0	1	502.06.35.0
36	Spring spacer	1	502.06.32.0	1	502.06.32.0	1	502.06.32.0
37	Brake handle	1	502.06.20.0	1	502.06.20.0	1	502.06.20.0
38	Spiral spring	1	502.06.25.0	1	502.06.25.0	1	502.06.25.0
39	Single pulley	1	502.00.40.0	1	502.00.40.0	1	502.00.40.0
40	Return rod	1	502.50.09.0	1	502.50.09.0	1	502.50.09.0
41	Engagement casing 1	1	502.50.06.0	1	502.50.06.0	1	502.50.06.0
42	Tension spring 2	1	502.50.10.0	1	502.50.10.0	1	502.50.10.0
43	Engagement casing 2	1	502.50.02.0	1	502.50.02.0	1	502.50.02.0
44	Ball Ø8,7	2	DIN 5401	2	DIN 5401	2	DIN 5401
45	Single pulley with rope hole	1	502.00.42.0	1	502.00.42.0	1	502.00.42.0
46	Brake rope - red	1	301.00.50.0	1	301.00.50.0	1	301.00.50.0
47	Tension bolt 2	1	305.06.06.0	1	305.06.06.0	1	305.06.06.0
48	Wooden handle	2	/	2	/	2	/
49	Spring pin 4 x 20	1	DIN 1481	1	DIN 1481	1	DIN 1481
50	Spring pin 6 x 40	1	DIN 1481	1	DIN 1481	1	DIN 1481
51	Saftey spring pin 10 + chain	/	/	1	DIN 914	/	/
52	R pin + chain	1	DIN 11024E	2	DIN 11024E	1	DIN 11024E
53	Split pin 5 x 45	1	DIN 94	1	DIN 94	1	DIN 94
54	Wire rope clamp 3/8" M8	1	DIN 741	1	DIN 741	1	DIN 741
55	Lubrication attachment M8	1	DIN 71412	1	DIN 71412	1	DIN 71412

Pos.	Title	Type					
		30M		35M		40eco	
		Nr. of pcs.	Plan or standard number	Nr. of pcs.	Plan or standard number	Nr. of pcs.	Plan or standard number
56	Nut M8	2	DIN 934	2	DIN 934	2	DIN 934
57	Wasner M8	2	DIN 125	2	DIN 125	2	DIN 125
58	Screw M8 x 16	1	DIN 933	1	DIN 933	1	DIN 933
59	Nut M12	2	DIN 934	2	DIN 934	2	DIN 934
60	Screw M12 x 55	1	DIN 933	1	DIN 933	1	DIN 933
61	Screw M12 x 20	4	DIN 933	4	DIN 933	4	DIN 933
62	Wasner M12	4	DIN 127	4	DIN 127	4	DIN 127
63	Nut M8	10	DIN 985	10	DIN 985	10	DIN 985
64	Screw M8 x 16	3	DIN 933	3	DIN 933	3	DIN 933
65	Screw M8 x 20	5	DIN 933	5	DIN 933	5	DIN 933
66	Wasner M8	4	DIN 127	4	DIN 127	4	DIN 127
67	Screw M8 x 25	1	DIN 933	1	DIN 933	1	DIN 933
68	Screw M10 x 45	1	DIN 931	1	DIN 931	1	DIN 931
69	Nut M10	1	DIN 985	1	DIN 985	1	DIN 985
70	Wasner M17	1	DIN 7349	1	DIN 7349	1	DIN 7349
71	Screw M6 x 35	1	DIN 931	1	DIN 931	1	DIN 931
72	Nut M6	1	DIN 985	1	DIN 985	1	DIN 985
73	Nut M12	1	DIN 985	1	DIN 985	1	DIN 985
74	Screw M8 x 55	1	DIN 931	1	DIN 931	1	DIN 931
75	Screw M8 x 70	1	DIN 931	1	DIN 931	1	DIN 931
76	Wasner M8	1	DIN 9021	1	DIN 9021	1	DIN 9021
77	Screw M8 x 12	1	DIN 912	1	DIN 912	1	DIN 912
78	Screw M8 x 16	1	DIN 912	1	DIN 912	1	DIN 912
79	Nut M30	1	DIN 985	1	DIN 985	1	DIN 985
81	Nut M12	2	DIN 934	2	DIN 934	2	DIN 934
82	Bolt M12 x 20	4	DIN 933	4	DIN 933	4	DIN 933
83	Wasner M12	4	BN 13291	4	BN 13291	4	BN 13291
84	Bolt M12 x 55	1	DIN 933	1	DIN 933	1	DIN 933
85	Bolt M12 x 30	1	DIN 933	1	DIN 933	1	DIN 933
86	Nut M30	1	DIN 985			1	DIN 985
87	Nut M39			1	DIN 985		

30M, 35M, 40ECO

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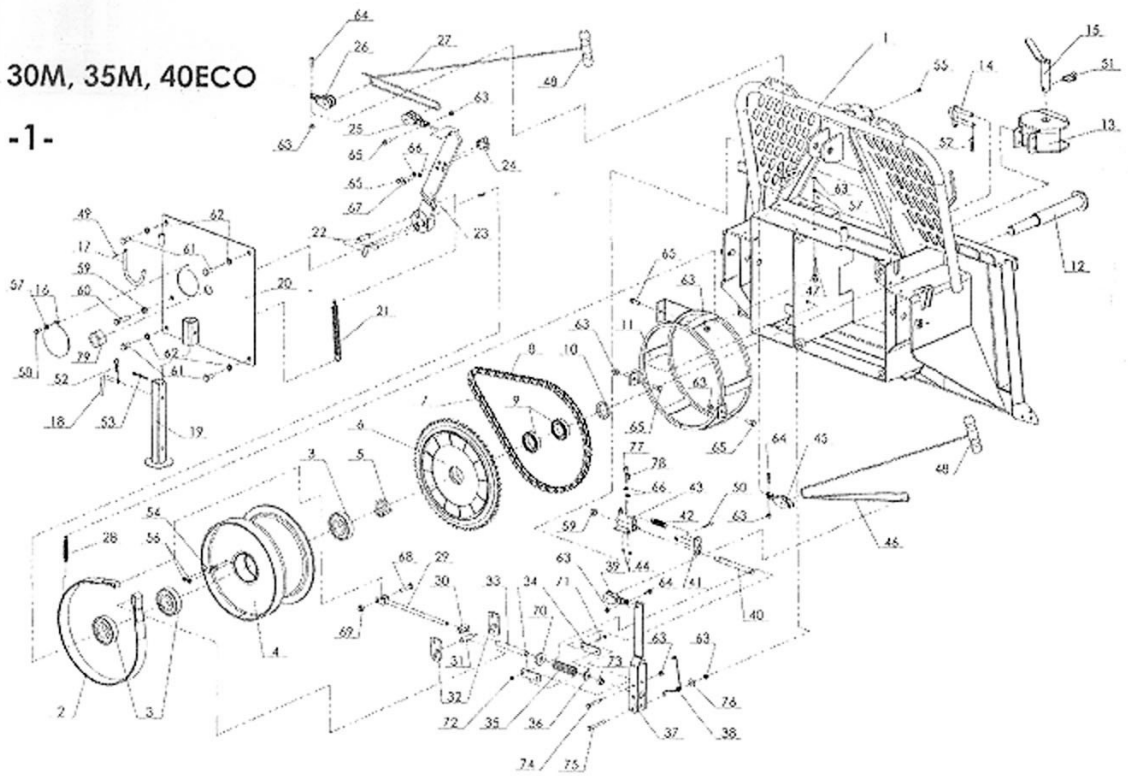

SPARE PARTS LIST

Forestry winches – 30M, 35M, 40ECO (image 2)

Pos.	Title	Type					
		30M		35M		40eco	
		Nr. of pcs.	Plan or standard number	Nr. of pcs.	Plan or standard number	Nr. of pcs.	Plan or standard number
1	Saftey net	1	301.88.01.0	1	502.88.30.0	1	502.88.30.0
2	Saftey net - small	1	301.15.00.0	1	305.15.00.0	1	305.15.00.0
3	Rivet 4mm	4	DIN 7337	4	DIN 7337	4	DIN 7337
4	Shaft protection	1	302.35.02.0	1	305.35.02.0	1	305.35.02.0
5	Drivetrain cover	1	301.35.01.0	1	305.35.01.0	1	305.35.01.0
6	Nut KM-8 M40x1,5	1	DIN 981	1	DIN 981	1	DIN 981
7	Saftey washer MB 8	1	DIN 5406	1	DIN 5406	1	DIN 5406
8	Ball bearing 6208 2Z	2	DIN 628	2	DIN 628	2	DIN 628
9	Drivetrain housing	1	301.08.05.0	1	305.08.05.0	1	305.08.05.0
10	Shaft with chain wheel	1	301.08.01.0	1	305.08.01.0	1	305.08.01.0
11	Upper pin	1	302.00.25.0	1	305.00.25.0	1	305.00.25.0
12	Pin Ø16	1	502.06.41.0	1	502.06.41.0	1	502.06.41.0
13	Compression spring	1	502.06.42.0	1	502.06.42.0	1	502.06.42.0
14	Pad Ø16	1	502.06.43.0	1	502.06.43.0	1	502.06.43.0
15	Lower pin	2	302.00.07.0	2	305.00.07.0	2	305.00.07.0
16	Upper pulley housing	1	301.09.01.0	1	305.09.01.0	1	305.09.01.0
17	Upper pulley spacer	1	301.09.09.0	1	305.09.09.0	1	305.09.09.0
18	Upper pulley steel rope guidance	1	301.09.29.0	1	305.09.29.0	1	305.09.29.0
19	Retaining ring N65 x 2	1	DIN 472	1	DIN 472	1	DIN 472
20	Ball bearing 6305 2RS	/	/	1	DIN 628	1	DIN 628
20	Ball bearing 6205 2RS	1	DIN 628	/	/	/	/
21	Upper pulley wheel	1	301.09.08.0	1	305.09.08.0	1	305.09.08.0
22	Upper pulley	1	301.09.00.0	1	305.09.00.0	1	305.09.00.0
23	Lower pulley housing	/	/	1	502.10.01.A	/	/
24	Lower pulley steel rope pin	/	/	1	502.10.06.0	/	/

Pos.	Title	Type					
		30M		35M		40eco	
		Nr. of pcs.	Plan or standard number	Nr. of pcs.	Plan or standard number	Nr. of pcs.	Plan or standard number
25	Lower pulley spacer	/	/	1	502.10.05.0	/	/
26	Lower pulley wheel	/	/	1	502.09.08.0	/	/
27	Ball bearing 6306 2Z	/	/	1	DIN 628	/	/
28	Retaining ring N72 x 1,5	/	/	1	DIN 472	/	/
29	Lower pulley pin	/	/	1	502.10.10.0	/	/
30	Lower pulley	/	/	1	502.10.00.0	/	/
31	Complete drivetrain	1	301.08.00.0	1	305.08.00.0	1	305.08.00.0
32	Set bolt	1	502.06.40.0	1	502.06.40.0	1	502.06.40.0
33	Spring pin 4 x 20	/	/	1	DIN 1481	/	/
34	Spring pin 6 x 45	/	/	1	DIN 1481	/	/
35	Saftey spring pin 10 + chain	3	DIN 914	3	DIN 914	3	DIN 914
36	Screw M12 x 35	4	DIN 933	4	DIN 933	4	DIN 933
37	Nut M12	8	DIN 985	8	DIN 985	8	DIN 985
38	Screw M8 x 16	3	DIN 933	3	DIN 933	3	DIN 933
39	Washer M8	1	DIN 9021	1	DIN 9021	1	DIN 9021
40	Washer M8	2	DIN 125	2	DIN 125	2	DIN 125
41	Washer M10	1	DIN 125	1	DIN 125	1	DIN 125
42	Nut M10	1	DIN 985	1	DIN 985	1	DIN 985
43	Nut M10	1	DIN 315	1	DIN 315	1	DIN 315
44	Screw M12 x 95	3	DIN 931	3	DIN 931	3	DIN 931
45	Washer M12	6	DIN 1440	6	DIN 1440	6	DIN 1440
46	Screw M12 x 65	1	DIN 931	1	DIN 931	1	DIN 931
47	Washer M12	2	DIN 9021	2	DIN 9021	2	DIN 9021
48	Screw M16 x 80	1	DIN 931	1	DIN 931	1	DIN 931
49	Washer M16	2	DIN 440	2	DIN 440	2	DIN 440
50	Nut M16	1	DIN 985	1	DIN 985	1	DIN 985

30M, 35M, 40ECO

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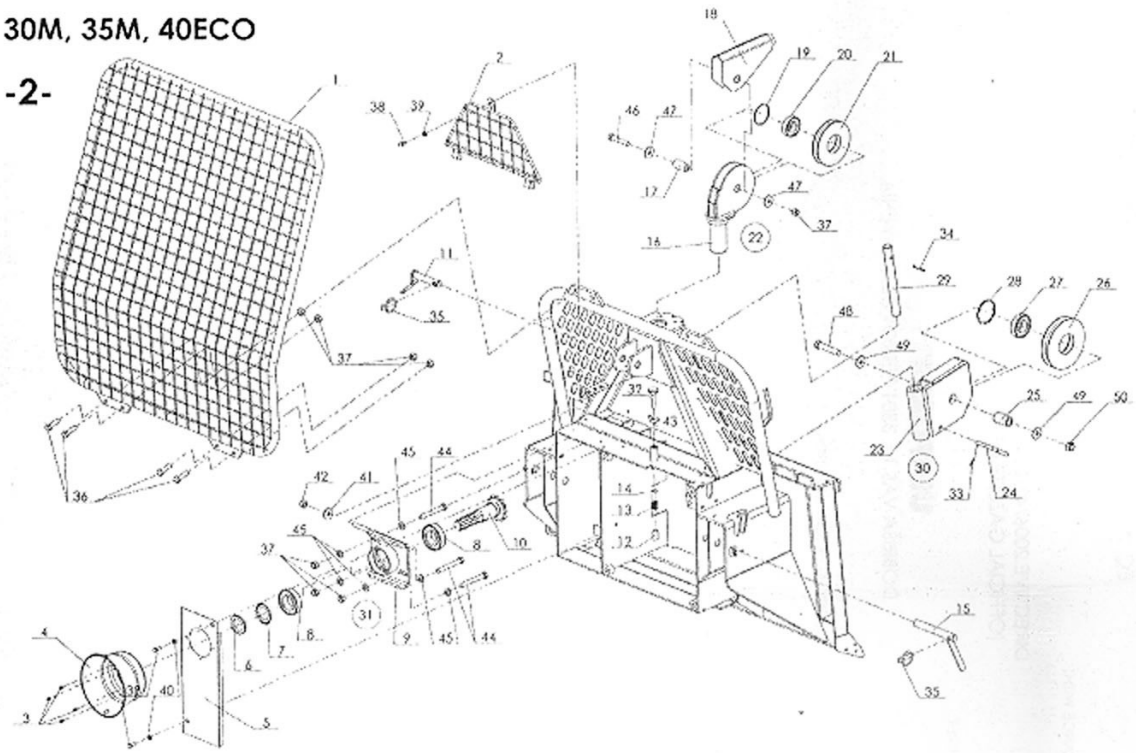

EC DECLARATION OF CONFORMITY

IN COMPLIANCE WITH:

DIRECTIVE 2006/42/ES AND THE MACHINERY SAFETY RULES
(OFFICIAL GAZETTE OF RS, NR. 75/08, 66/10 and 74/11)

MANUFACTURER:

UNIFOREST D.O.O.
DOBRIŠA VAS 14, 3301 PETROVČE, SLOVENIA

PERSON RESPONSIBLE FOR TECHNICAL DOCUMENTATION:

MARKO POLAK, UNIV.DIPL.INŽ., UNIFOREST,
DOBRIŠA VAS 14, 3301 PETROVČE

DESCRIPTION OF DEVICE - MACHINE:

WINCH:
UNIFOREST 30M, 35M, 40 eco, 40E, 40ER, 40EH, 40Hpro
50E, 50ER, 50EH, 50Hpro, 60E, 60ER, 60EH, 60Hpro,
80E, 80ER, 80EH, 80Hpro

WE DECLARE UNDER OUR SOLE RESPONSIBILITY THAT THE ABOVE MENTIONED MACHINE

WINCH:
UNIFOREST 30M, 35M, 40 eco, 40E, 40ER, 40EH, 40Hpro
50E, 50ER, 50EH, 50Hpro, 60E, 60ER, 60EH, 60Hpro,
80E, 80ER, 80EH, 80Hpro

IS COMPLIANT WITH THE FOLLOWING REGULATIONS AND STANDARDS:

DIRECTIVE 2006/42/EC AND THE MACHINERY SAFETY RULES
(OFFICIAL GAZETTE OF RS, NR. 75/08, 66/10 and 74/11)

HARMONISED AND OTHER STANDARDS:

SIST EN ISO 12100:2011 SIST EN ISO 4254-1:2010/ AC:2011
SIST EN ISO13857:2008 SIST EN ISO 4413:2011 ÖNORM L5276:2008

DATE:
PETROVČE, 15.11. 2012

SIGNATURE OF RESPONSIBLE PERSON:
MARKO POLAK, UNIV.DIPL.INŽ.

UNIFOREST
d.o.o.
Dobrišа vas 14, 3301 PETROVČE