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# OPERATING MANUAL:

## WINCH VIK 615/330

1. Declaration of conformity
2. Technical data and area of use
3. Instructions of use, operating and maintenance
4. Safety instructions
5. List of spare parts
6. Exploded view- VIK 615/330, reduction gear VIK 615/330

**WARNING: before use, read the instructions manual to avoid possible accidents!**

## 2 TECHNICAL DATA

	<b>WINCH TYP VIK 615:</b>	<b>WINCH TYP VIK 330:</b>
Traction force on the inner diameter of the drum D= 70 mm	to 5,90 kN	to 3 kN
Traction force on the outer diameter of the drum D= 156 mm	to 3 kN	to 1,5 kN
Cable speed	to 21 m/min (app. 0,35 m/s)	to 42 m/min (app. 0,7 m/s)
Reccomended engine power	2,3 kW ( 3,1 HP)	2,3 kW ( 3,1 HP)
Traction cable	Ø 4,5 mm DIN 3059 - min. breaking force 11,80 kN	Ø 3 mm DIN 3053 – breaking force 6 kN
Max lenght of traction cable	to 70 m	to 160 m
Transmission	transmission belt-3 stage epiciclic wheel	transmission belt-3 stage epiciclic wheel
Brake on load	avtomatic blockade	avtomatic blockade
Brake at free run	one stage -disk	one stage-disk
Dimensions L x W x H	app 414 x 319 x 254 mm	app 420 x 320 x 254 mm
Weight:	Without engine and traction cable app. 17 kg	Without engine and traction cable app. 17 kg

Applied engine :	As drive, can be used saw engines of 2 kW (2,7 HP) to 3,4 kW ( 4,6 HP ) power, from 9.000 to 12.500 rpm <b>considering max. allowed pull power</b> at app. 6.500 - 9.000 rpm. <b><u>Standard winch</u></b> is adjusted for Jonsared 2041 and Husqvarna 40 and 350 engines with <b>max. torque to 3 Nm .</b>
Traction speed:	- depending on the diameter of the winding drum and a built engine rpm

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### **2.1 Qualified use:**

Considering the safety measures, instruction manual, working operation and maintenance according to manufacturer, winches VIK 615 and VIK 330 are expected to be used for pulling diferent loads. It is necessary to strictly observe max. traction, as stated in the technical data (first and second indent).

Winches can not be used for other purposes except for pulling the loads!

Do not use the winch for lifting!

## **3 INSTRUCTIONS FOR USE AND MAINTENANCE**

### **3.1 INSTRUCTIONS FOR USE AND SETTING UP:**

1. Unwind the cover of the saw and remove the sword and chain.
2. Close the oil screw on the saw (Leave the oil for the chain in the tank, so the oil pump wont be without it.)
3. Set up the saw chain strainer in to the middle position.
4. Remove the coupling and set up the pulley.
5. Remove the protective device (poz. 38) and screw (poz. 28) and install the nopped V-belt.
6. Install the saw engine on the winch with the addaptor (for different saws are used different addaptors.), and screw it down with two female screw on the saw. Strain the V-belt adequotely.
7. Check the belt again and set up the protective device again.
8. After starting the saw adjust the free run, so the coupling is idle.

#### **3.1.1 Change of the nopped V-belt:**

- take of the sheeting (poz. 38) and screw (poz. 28).
- unwind the engine.
- set up the V-belt on the pulley and fasten the saw again.
- strain the V-belt adequotely and tighten the female screw for engine fixation.
- place the sheeting again.

#### **3.1.2 Traction cable:**

Is attached on the drum with one screw (poz. 08/2) and is winded up entirely at 50% load. At first use it is necessary to entirly pull out the traction cable at right adjustment of brake handle in a free run (poz. 11). Vertical position of brake handle means 100% free run, horizontal position means 100% hold – position for load pull. There must be at least 7 mm of empty space between the edge and between the traction cable when winded on the drum.

#### **3.1.3 Coupling and brake adjustment:**

The adjustments were done by the manufacturer, but because of wearing out of some parts trough time, it is necessary to check the working activity of coupling and brake. If it is necessary adjust it with the screw (poz. 29).

### **3.2 OPERATION INSTRUCTIONS:**

1. Do not remove the protective device during work.
2. While working, never unwind the traction cable to the end. There must be at least three (3) coils of traction cable on the drum (poz. 08).
3. For carrying the winch use the handle. (poz. 33)
4. Before start up of the winch be sure that winch is secured. For that purpose use our reccomended chains.
5. For loads over 6 kN use indirekt pull with pulley.

### **3.3 MAINTENANCE INSTRUCTIONS:**

1. Winch must be examined by authorized service (Viig d.o.o.) once in a year. In difficult operating conditions (continuous work with heavy duty, high outside temperature, etc..) at least every 3 months.
2. It is necessary to make the visual check on the winch before use.
3. Damaged traction cable must be replaced immediately.
4. Check the condition of the screws regulary.
5. If necessary adjust the grip of the coupling and brake with the screw (poz. 29).

6. Maintain the regular check on the V-belt.
7. Lubrication of drive elements should be done at regular service (every 3 to 12 months).

## **4 INSTRUCTIONS FOR SAFE HANDLING**

### **FOR YOUR SAFETY CONSIDER THE SAFETY INSTRUCTIONS TO AVOID ACCIDENTS:**

1. The winch can be operated only by the adult person.
2. Always use the protective means (helmet, gloves, boots, clothing)
3. Choose the correct place to attach the winch. Assure the clear view on the working area and remove all obstacles that might obstruct work with the winch.
4. To attach the winch use the tripple security measures. Pay attention to the chains so they wont slip of the trunk.
5. To attach the winch and the pulley use protective belt to avoid damaging the tree. Be sure that pulley is in the highest position possible.
6. Do the regular check on the protective belts and if necessary replace them.
7. Load to be hauled should not be hanged up on the traction cable. For that purpose use the chains.
8. Before starting of the work, agree with the assistent about clear hand signals for communication.
9. During the work with the winch do the regular check on the traction cable while coiling up the on the drum and also check the traction cable while passing over the pulley.
10. It is prohibited for unathorized personel to be in the near of the traction cable during work.
11. Secure the public area if load is hauled over it.

### **general:**

**Work in the forest is dangerous, so there must be payed special attention to it, because nothing can replace the loss of life or health.**

## 5 Winch VIK 615/ VIK 330: Spare part list

Nr.	Name	Ident Nr.	Pieces
01	Reduction gear housing	615-101-00	1
02	Driving shaft	615-102-00	1
03	Epiciclic wheel No.1	615-103-00	1
03/3	Distance ring	615-103-03	4
04	Epiciclic wheel No.2	615-104-00	1
05	Epiciclic wheel No.3	615-105-00	1
06	Left flange	615-106-00	1
07	Main shaft with epiciclic wheel	615-107-00	1
08	Drum	615-108-00	1
08/1	Bearing-bushing	615-108-01	2
08/2	Coiled pin M5 - DIN 915	615-108-02	2
09	Brake plate	615-109-00	1
09/1	Brake plate hub	615-109-01	1
09/2	Distance piece	615-109-02	1
09/3	Safety ring 25 - DIN 471	615-109-03	1
10	Thrust plate	615-110-00	1
11	Thrust plate handle	615-111-00	1
11/1	Handle-prolonged	615-111-01	1
12	Right flange	615-112-00	1
12/1	Distance-bushing	615-112-01	1
13	Screw	615-113-00	3
14	Bearing cover	615-114-00	1
15	Washer	615-115-00	1
16	Coupling cover with pulley	615-116-00	1
17-a	Pulley "A" - Ø 124 - VIK 615	615-117-01	1
17-b	Pulley "B" - Ø 80 - VIK 330	615-117-02	1
17/1	Coil rod M5 - DIN 914	615-117-04	3
18	V-belt nopped "A" La=710 mm-VIK 615	615-118-01	1
18	V-belt nopped "B" La=650 mm-VIK 330	615-118-02	1
19	Bearing 6004 RSR	615-119-00	1
20	Bearing 16004	615-120-00	1
21	Blockade-bushing HF 2018	615-121-00	1
22	Safety ring 20 - DIN 471	615-122-00	1
23	Axial bearing 51110	615-123-00	1
24	Bearing 6204	615-124-00	1
25	Spring	615-125-00	3
26	Screw M8 x 16 -DIN 933	615-126-00	6
27	Screw M6 x 12 -DIN 912	615-127-00	9
27/1	Female screw M6 - DIN 980	615-127-01	11
27/2	Screw M6 x 20 - DIN 912	615-127-02	2
28	Screw	615-128-00	1
28/1	Screw M6 - DIN 980	615-128-01	3
28/2	Distance-bushing	615-128-02	1
29	Screw M10 x 16 - DIN 912	615-129-00	1
30	Screw M5 x 10 - DIN 912	615-130-00	4

<b>Nr.</b>	<b>Name</b>	<b>Ident Nr.</b>	<b>Pieces</b>
31	Welded framework	615-231-00	1
31/3a	Traction cable guidance "a"	615-231-30/a	1
31/3b	Traction cable guidance "b"	615-231-30/b	1
31/3b-1	Bolt	615-231-31	1
31/3b-2	Pin	615-231-32	1
31/3b-3	Upper plate	615-231-33	1
31/3b-4	Lower plate	615-231-34	1
31/3b-5	Roll	615-231-35	2
31/3b-6	Bushing	615-231-36	2
31/3b-7	Screw M 6 X 30	615-231-37	2
31/3b-8	Female screw M 6 - DIN 980	615-231-38	2
33	Elastic element	615-233-00	1
33/1	Screw M 8 x 16 - DIN 912	615-233-01	2
34	Traction stirrup	615-234-00	1
34/1	Bolt	615-234-01	2
34/2	Screw M 8 x 20 - DIN 933	615-234-02	2
34/3	Female screw M8 - DIN 980	615-234-03	2
34/4	Washer M8 - DIN 126	615-234-04	2
35-a	Handle (side)	615-235-00/a	1
35-b	Handle (upper)	615-235-00/b	1
35-b1	Screw M6x20 - DIN 912	615-235-01	2
36	Traction cable protective plate	615-236-00	1
36/1	Screw M 6 x 50 - DIN 603	615-236-01	2
36/2	Lamella Ø 20/ Ø 7	615-236-02	2
36/3	Female screw M6 - DIN 980	615-236-03	2
36/4	Pressure spring	615-236-04	2
37	Drum cover	615-237-00	1
37/1	Screw M 4 x 10 - DIN 7983	615-237-01	4
38	Belt cover	615-238-00	1
38/1	Screw M 6 x 10 - DIN 966	615-238-01	2
39	Distance piece for engine fixation	615-239-00	2

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