

# INSTRUCTION MANUAL WINTEX 1000

INTEGRATED HYDRAULICS



- 0-25 cm
- Fully automatic
- Fast and efficient
- Optimum speed
- Minimum maintenance
- Reliable
- Competitive

<b>Manufactured by:</b>	WINTEX AGRO Vilhelmsborgvej 15 DK-7700 Thisted
<b>Type designation:</b>	WINTEX 1000
<b>Voltage:</b>	12 volt DC
<b>Year of production:</b>	2016



## FOR YOUR SAFETY

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**Before starting** the WINTEX1000 please make sure that nobody is present within a range of 10 meters.

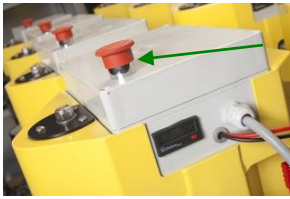
Be seated correctly on the ATV with one leg on each side of the seat, and the hands placed correctly on the steering wheel.

When inspecting the WINTEX 1000, you must always activate the emergency stop, and the ATV must be turned off.

**Every time** you start the WINTEX 1000, you must **test the emergency stop**. If the emergency stop does not turn off the soil sampler, you must not use it.



## 1. STARTING THE WINTEX 1000



Start the ATV, and deactivate the emergency stop. The red button must be up.

Activate the foot switch and the brake handle on the steering wheel, and shortly push the button at your right hand. Foot switch and brake lever must be activated during the entire process. If one of these switches is released, the process will stop.

Note: The emergency stop must always be activated at long stops, or the battery might be discharged.



The WINTEX 1000 has three programs.

Program 1: The soil sampler's standard program.

Program 2: The probe conducts an extra rotation.

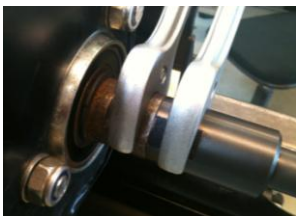
Program 3: The probe moves up and down without rotation.

## 2. INTERRUPTING THE PROCESS



Due to various reasons it might be necessary to interrupt the process. In this case deactivate the foot switch, and the process will stop immediately. When reactivating the foot switch and the brake handle at the same time, the probe will go back into start position.

## 3. REPLACEMENT OF PROBE



The emergency stop must be activated, and the ATV must be turned off.

Use two 27 mm keys to loosen the probe.

The probe is mounted correctly when the slit of the probe points towards the soil box when the rotation stops.



#### 4. ADJUSTMENT OF PROBE DEPTH



The probe can penetrate soil up to 25 cm. To adjust the depth, loosen the star knobs and move the sensor up or down.

If further adjustment is necessary, the yellow unit can be moved in the holes of the mounting frame.

#### 5. ADJUSTMENT OF OIL PRESSURE



The oil pressure is pre-set at a lower limit of 50 bar and an upper limit of 80 bar. Adjusting the excess pressure valve can alter the pressure.

For adjusting the pressure downwards loosen the lock nut with a 19 mm key, and adjust the screw with a 6 mm Allen key. Increase the pressure by turning the screw clockwise.

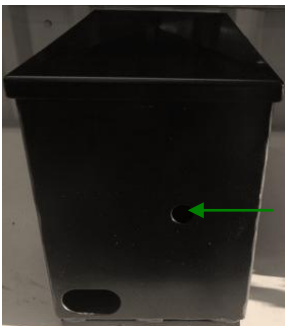
To adjust the pressure upwards loosen the locknut with a 17 mm key, and adjust the screw with a 5 mm Allen key. Increase the pressure by turning the screw clockwise. Read the pressure directly on the mounted pressure gauge.



The soil sampler can also be activated manually. Push the rubber button (see arrow) in the hole at the front of the oil tank, and the probe will move up. Push the button on the opposite side (see arrow), and the probe will go down.

**Important:**

**The lower pressure must not exceed 50 bar or the soil sampler will be damaged!**



**Filling with hydraulic oil:**

Remove the screw lid at the top of the oil tank and replenish with hydraulic oil.

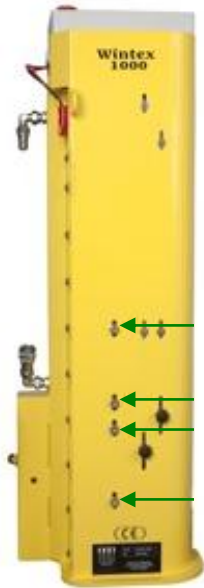
**Important: Do only use DIN HLP 22 or 32 oil!** The WINTEX 1000 is pre-filled with Equivis ZS32 hydraulic oil.

**Fuses:**

There are two fuses in the control box: one 25 amp fuse for the rotation of the probe (on the latest models a 15 amp fuse) and one 7.5 amp fuse for current control.



## 6. TIGHTENING AND ADJUSTMENT OF CHAIN



Make sure that the probe is up.

Loosen the four 8 mm bolts at the front of the WINTEX 1000 with a 6 mm Allen key.

Push the two upper 8 mm bolts down until the upper half of the chain is taut. Then tighten the bolts.

Now push the lower 8 mm bolts up until the lower half of the chain is taut. This can be done by squeezing around the bolts with tongs. Then tighten the bolts.

Make sure that the chain is taut now.

## 7. ADJUSTMENT OF SOIL BOX



Adjust the soil box so that it is perpendicular with the soil sampler and so that the drilling head can pass.

Adjust the soil box by loosening the nut and by turning the eccentric with the Wintex special key.

## 8. ADJUSTMENT OF EJECTOR

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When adjusting the ejector make sure to stop the probe approximately 10 cm from the start position. Turn off the WINTEX 1000, and activate the emergency stop.

Loosen the six Allen screws (three at the top and three below). Then loosen the nut for the probe. Adjust the ejector so that it is placed in the middle of the hole of the probe.

Tighten the screws and the nut again, and the probe will move back into start position. If necessary adjust the ejector by slightly bending it when it is free from the probe tube.

## 9. MAINTENANCE

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**Important:** After the first eight hours of operation, screws, bolts and nuts must be tightened.

### Daily:

- Lubricate chain with oil spray. Avoid the oil to get in touch with the aluminium rails.
- Lubricate the hinges of the soil box.
- Clean the ejector.
- Clean the chain for the rotation of the probe (is easily carried out with compressed air).
- Clean the parts where soil can be accumulated.

### Weekly:

- Check and tighten vital parts.
- Check and if necessary change the ejector tip.
- Check and if necessary change the probe.
- Check the oil level of the hydraulics.



## 10. PROBLEM SOLVING

PROBLEM	CAUSE	POSSIBLE SOLUTIONS
The WINTEX 1000 does not start.	<ol style="list-style-type: none"> <li>1) The fuse is blown.</li> <li>2) The emergency stop is activated.</li> <li>3) Does not activate all switches.</li> <li>4) A switch is defect.</li> <li>5) There is a lack of power supply.</li> </ol>	<ol style="list-style-type: none"> <li>1) Put in a new fuse.</li> <li>2) Deactivate the emergency stop.</li> <li>3) See manual point 1.</li> <li>4) Change the switch.</li> <li>5) Charge the battery.</li> </ol>
The probe does not rotate.	<ol style="list-style-type: none"> <li>1) The fuse is blown.</li> <li>2) The chain is broken.</li> </ol>	<ol style="list-style-type: none"> <li>1) Put in a new fuse.</li> <li>2) Replace the chain.</li> </ol>
The soil cannot be squeezed out of the probe.	<ol style="list-style-type: none"> <li>1) The ejector tip is worn.</li> <li>2) The probe is choked up with soil.</li> <li>3) The probe is bent.</li> <li>4) The ejector is bent.</li> </ol>	<ol style="list-style-type: none"> <li>1) Change the ejector tip.</li> <li>2) Clean the probe for soil.</li> <li>3) Exchange the probe (manual point 3).</li> <li>4) Adjust the ejector (manual point 8)</li> </ol>
The ATV is being lifted when the probe goes into the ground.	<ol style="list-style-type: none"> <li>1) The oil pressure is too high.</li> </ol>	<ol style="list-style-type: none"> <li>1) Reduce the oil pressure.</li> </ol>
The ejector cannot pass through the probe tube.	<ol style="list-style-type: none"> <li>1) The ejector is stuck.</li> <li>2) The chain is dislocated.</li> <li>3) The soil sampler's movement is blocked by soil.</li> </ol>	<ol style="list-style-type: none"> <li>1) Adjust the ejector (manual point 8).</li> <li>2) Adjust and tighten the chain (manual point 6).</li> <li>3) Clean the soil sampler.</li> </ol>
The probe does not stop spinning.	<ol style="list-style-type: none"> <li>1) The sensor is not adjusted correctly.</li> <li>2) The sensor not adjusted correctly.</li> <li>3) A wire fell out of the sensor in the drilling head or the middle sensor.</li> <li>4) The wires which are going to the computer are disconnected.</li> </ol>	<ol style="list-style-type: none"> <li>1) Move the middle sensor in the tower closer to the drilling head or replace it.</li> <li>2) Move the sensor in the drilling head closer to the funnel or replace it.</li> <li>3) Re-connect the wire.</li> <li>4) Re-connect the wires (I4 or I6).</li> </ol>
The drilling head will go down, but would not come up.	<ol style="list-style-type: none"> <li>1) The sensor not adjusted correctly or the sensor is broken.</li> <li>2) The hydraulic pressure on the Honda motor is too low.</li> <li>3) Bad connection to the Honda Motor.</li> <li>4) A nut fell off between the hydraulic cylinder and slide for the soil box.</li> <li>5) Broken computer.</li> <li>6) The wires are disconnected from the computer (Q2 or Q3).</li> <li>7) The battery of the ATV is weak and is not sending the full 12 volts.</li> </ol>	<ol style="list-style-type: none"> <li>1) Move the bottom sensor closer to the drilling head, or replace the bottom sensor.</li> <li>2) Adjust the pressure.</li> <li>3) Check the connection to the Honda motor.</li> <li>4) Re-place the nut.</li> <li>5) Install a new computer.</li> <li>6) Re-connect the wires.</li> <li>7) Recharge or change the battery.</li> </ol>
The drilling head hits the soil box.		<ol style="list-style-type: none"> <li>1) Adjust the bucket bearing.</li> </ol>



The drilling head will not move down or up.	<ol style="list-style-type: none"> <li>1) There is not enough power to the tower (12 volts needed).</li> <li>2) One of the three sensors is broken or disconnected.</li> <li>3) A fuse is blown.</li> <li>4) The emergency stop is activated.</li> <li>5) The hydraulic pressure of the Honda motor is too low.</li> <li>6) A wire for the computer is disconnected.</li> <li>7) The bottom sensor is broken.</li> <li>8) The grey plug is not plugged in.</li> </ol>	<ol style="list-style-type: none"> <li>1) Recharge or change the battery.</li> <li>2) Replace or change the sensor.</li> <li>3) Set in a new fuse.</li> <li>4) Deactivate the emergency stop.</li> <li>5) Adjust the pressure.</li> <li>6) Re-connect the wire.</li> <li>7) Exchange the bottom sensor.</li> <li>8) Plug in the grey plug.</li> </ol>
The probe gets stuck when going up or down.	<ol style="list-style-type: none"> <li>1) Dirt is stuck behind the ejector tip.</li> <li>2) The probe is bent.</li> <li>3) The chain is too loose and came off the sprocket.</li> </ol>	<ol style="list-style-type: none"> <li>1) Remove the dirt.</li> <li>2) Set in a new probe.</li> <li>3) Set the chain back on the sprocket and tighten it.</li> </ol>
The drilling head will not stop when coming up.	<ol style="list-style-type: none"> <li>1) There is a broken top or middle sensor.</li> <li>2) The wire going to the sensor in the drilling head came loose.</li> <li>3) The wire going to the computer Came loose.</li> </ol>	<ol style="list-style-type: none"> <li>1) Replace the broken sensor.</li> <li>2) Tighten the wire.</li> <li>3) Tighten the wire (I4 or I6).</li> </ol>
The probe ejects the sample onto the ground.	<ol style="list-style-type: none"> <li>1) The chain in the drilling head came loose.</li> <li>2) The probe is no longer aligned correctly.</li> <li>3) The sensor is not adjusted correctly.</li> <li>4) The sensor is not adjusted correctly.</li> </ol>	<ol style="list-style-type: none"> <li>1) Tighten the chain.</li> <li>2) Re-align the probe to eject the soil into the soil box.</li> <li>3) Move the sensor in the drilling head closer to the funnel or replace it.</li> <li>4) Move the middle sensor in the tower closer to the drilling head or replace it.</li> </ol>
The drilling head has a lot of horizontal play.	<ol style="list-style-type: none"> <li>1) The screws holding the wearing plates came loose.</li> <li>2) The wearing plates are worn.</li> </ol>	<ol style="list-style-type: none"> <li>1) Tighten the screws.</li> <li>2) Replace the wearing plates.</li> </ol>

**For testing the brake contact, the start switch and the foot switch just activate the ignition on the vehicle, but do not start the motor. If all switches work, the rotation will start. If the rotation does not start, there is an error in one of the switches.**

