



HORSE-TRAINER WALK

INSTRUCTION MANUAL

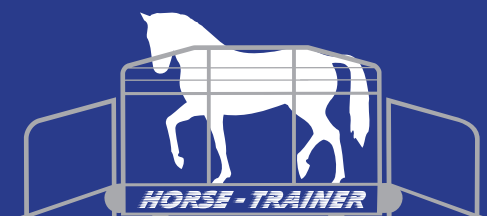


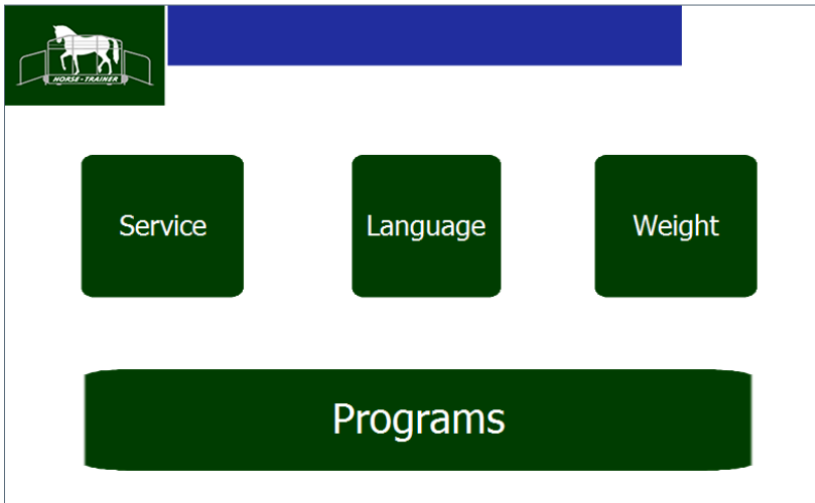
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USER INSTRUCTIONS FOR HORSE-TRAINER WALK

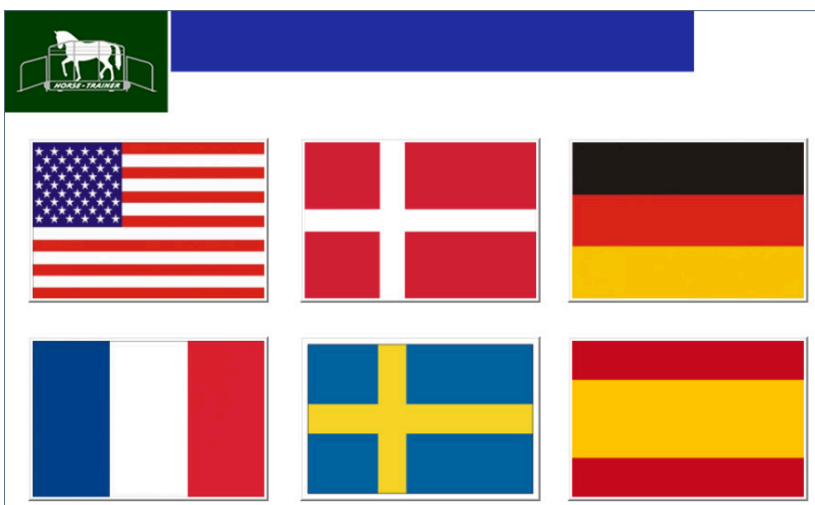
When you turn the power on for the Horse-Trainer WALK, the first screen you will see is the one presented below this text. This is the main screen, containing the headers “SERVICE”, “LAN-GUAGE” AND “PROGRAMS”.

There is an additional option – “WEIGHT” – if your Horse-Trainer is fitted with weighing cells.



CHOOSE LANGUAGE

You can use the options on this screen to switch between the available languages. The language changes when you press the respective buttons.



When you press EMERGENCY STOP, the belt will stop in approx. 1 second. Out of consideration for both the horse and the training equipment, **ONLY** ever use the EMERGENCY STOP if the horse or anyone in the immediate vicinity of the training equipment is in danger.

SELECT PROGRAM

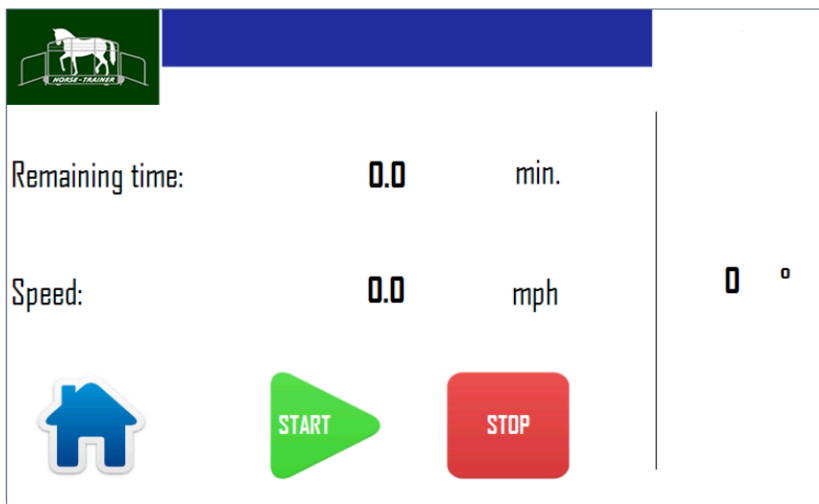
You can use this screen to select one of the ten pre-defined programs or to choose one of the “OWN PROGRAMS” – i.e. programs you have designed yourself. Press the house icon to return to the main screen without selecting a program.



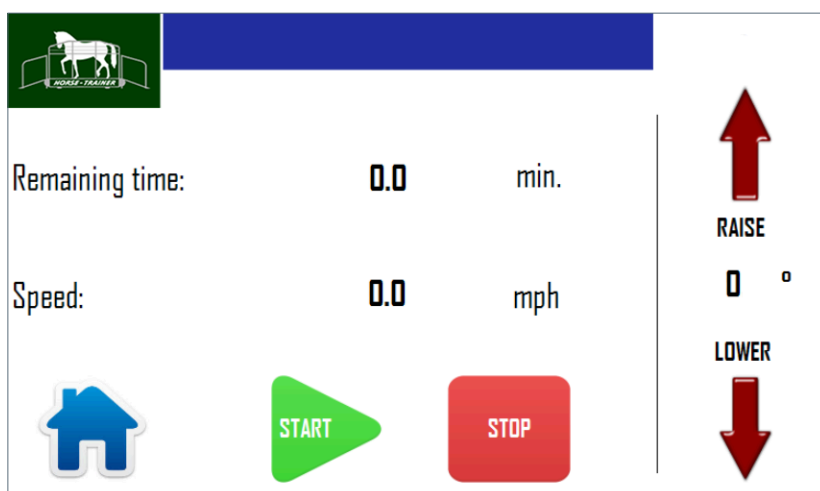
If you press one of the programs (0–9), the text in the box you press will turn bright green. Then press “OK” to move on to start.

If you select program “0”, you will see the screen below: The number of the program you have selected is displayed at the top of the screen.

When you press “START”, the belt will accelerate to the speed set on the speed scale. In the top right-hand corner of the screen you can see the current speed of the belt, the time remaining in the program and the angle to which the belt has been raised. If you press “STOP” either on the display or using the red stop button, the belt will slow down gradually until it stops. In program 0, you can use the “RAISE” and “LOWER” buttons to raise and lower the belt manually during operation. If you press “STOP” for more than four seconds, the program selected will be canceled and you can choose a new one.



If you choose one of the programs “1–9”, you will see the screen below: Here, the RAISE and LOWER functions are controlled automatically by the program itself according to a pattern described in the program overview.




OWN PROGRAMS

1. Press “SELECT PROGRAM”.
2. A screen presenting the own-designed programs you have already set up will appear.
3. Press the name of the program you want to use. Use the ▲ and ▼ arrows to switch between the different programs.
4. Then press “OK” to activate the program selected.

File name	Description


ACTUAL RECIPE
ABCDEFGHIJKLMNOPQRSTUVWXYZ...


OK
PROGRAM
Archive

TO ADD A NEW PROGRAM

1. Press the "PROGRAM NAME" field. A keyboard will appear. Use the keyboard to write an appropriate name for the program: 10 letters, figures, or characters. Then press "OK". You can program up to 10 lines in each program. You must program the lines in order, but you do not have to use all ten lines.
2. Press "PROGRAM LINE 1–5".
3. Use the respective fields to enter the speed in km/hour and the time in minutes. The times on the individual lines will be added together and the total time for the program cannot exceed one hour.
4. If necessary, press "PROGRAM LINE 6–10" to program the next 5 lines.
5. Press "OK" when you have finished setting up the program.
6. Then press "SAVE" to save the program. The program is now ready to use.

	Speed	Degrees	Time
1	-0000.0 mph	-00000 °	-00000 min.
2	-0000.0 mph	-00000 °	-00000 min.
3	-0000.0 mph	-00000 °	-00000 min.
4	-0000.0 mph	-00000 °	-00000 min.
5	-0000.0 mph	-00000 °	-00000 min.


OK
Save
Save as

SERVICE

The “Lubrication time” and “Pause time” fields refer to the belt lubrication system. For Horse-Trainer WALK, “Lubrication time” should be 0.1 sec. and “Pause time” should be 45 sec.

“Panic level” refers to the level of resistance the horse may display on the belt. If the horse is skittish and exceeds this level, the belt will stop for 15 sec. and then start again automatically. The level is normally set at 125%, but it can be set higher if this is necessary for a specific horse. **DON'T FORGET** to return the setting to the normal level afterwards.

The “Machine No.” field contains the production number for this Horse-Trainer (do not change).

The “Hours active” field displays the number of hours the Horse-Trainer has been in operation.

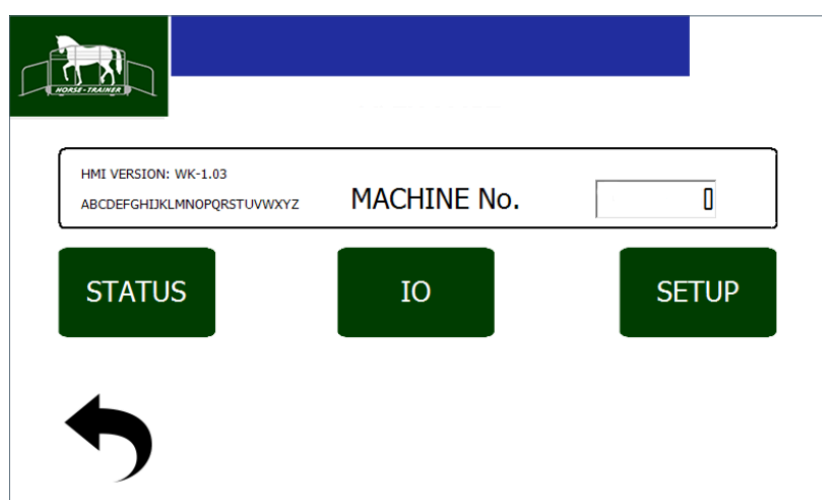
The “Hours std.by” field displays the number of hours the Horse-Trainer has been connected.


When you press the “CALIB WEIGH CELL” button, the screen will display a menu you can use to calibrate the measurement from the weighing cells.

When you press the “I/O” button, a screen entitled “Status output Status input” will appear. You can use this screen to activate certain outputs and monitor certain inputs.

When you press the “Settings” button, you will access a screen where you can switch certain functions on or off.

When you press the “STATUS” button, you will access a screen where you can monitor aspects such as the frequency transformer power and speed, and check the current error situation.





HORSE No:

0

ACTUAL WEIGHT

0 Kg

WEIGHT No. 1


0 kg

WEIGHT No. 2

0 kg

WEIGHT No. 3

0 kg



SAVE

GET

If your Horse-Trainer WALK is fitted with weighing cells, you can display the weight of the horse using the “Current weight” option. You can also view the results of the three most recent weighings of the horse in question.

“SAVE WEIGHT”:


To save the results of a weighing, press (Horse. no.) “SAVE WEIGHT”.

“GET WEIGHT”:

To view the results from the three most recent weighings of a horse, enter “Horse. no.” and then “GET WEIGHT”.

“CALIB WEIGH CELL” in SERVICE:

In order to ensure the correct weight of the horse is shown in the display, the display needs to be calibrated. Do as follows:



ADJUST 1

ADJUST 2

0


Tara

0

ACTUAL WEIGHT

0 Kg

Weight



Before starting the calibration process, you need to reset the weighing cell control unit, which is located at the bottom of the control box. Press "→O←" on the weighing cell control unit.

Then reset the display on the Horse-Trainer by pressing "TARE" on the display.

The exact weight in kg is now shown in the display on the weighing cell control unit in the control box.

Place something with a known weight on the belt. This could, for example, be a person who knows his/her own weight.

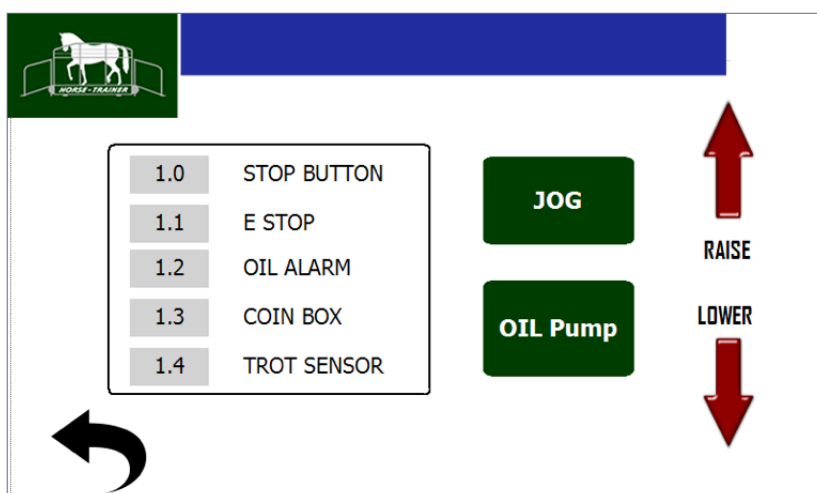
Fine tune to adjust the calibration value, and the exact weight – "Current Weight" – will be displayed.

In practice, the value from the weighing cell control unit is multiplied by the factor (Adjust 1 / Adjust 2), and the result is shown in "Current Weight".

Fine tune "Adjust 1" and "Adjust 2" and the exact weight – "Current Weight" – will be displayed.

In practice, the value from the weighing cell control unit is multiplied by the factor ("Adjust 1" / "Adjust 2"), and the result is shown in "Current Weight". If you set "Adjust 1" at 1000 and "Adjust 2" at 5000, it will be almost right. Otherwise tune "Adjust 2" up or down slightly.

THE "I/O" BUTTON



When you press the "I/O" button in the service menu, a screen entitled "Status output Status input" will appear, where you can activate certain outputs and monitor certain inputs.

You can use the "Raise belt" and "Lower belt" buttons to raise and lower the belt manually, or you can activate the belt motor at the set speed for as long as you press "Jog belt".

NB “STATUS INPUT” IS EXTREMELY USEFUL WHEN TROUBLESHOOTING:

The status of the “Stop button” should be “ON” (unless you press “STOP”).

The Emergency Stop status should be “OFF” unless you have pressed the emergency stop or if the stumble protection is not covered (or there is a horse on the belt). “Oil alarm” should be “OFF”, but it will switch to “ON” when you need to add belt lubrication oil. In that case, you will not be able to start the machine.

“Coin box” should be “OFF” unless you have fitted a coin box to the machine.

“Trot Sens.” should be “OFF” on this model.

SETUP

When you press the “SETUP” button in the service menu, you can choose to select or deselect a number of different properties. A password is required to access “SETUP”.

TROT:

Must be activated if the Horse-Trainer is fitted with a motor for trotting.

120Hz:

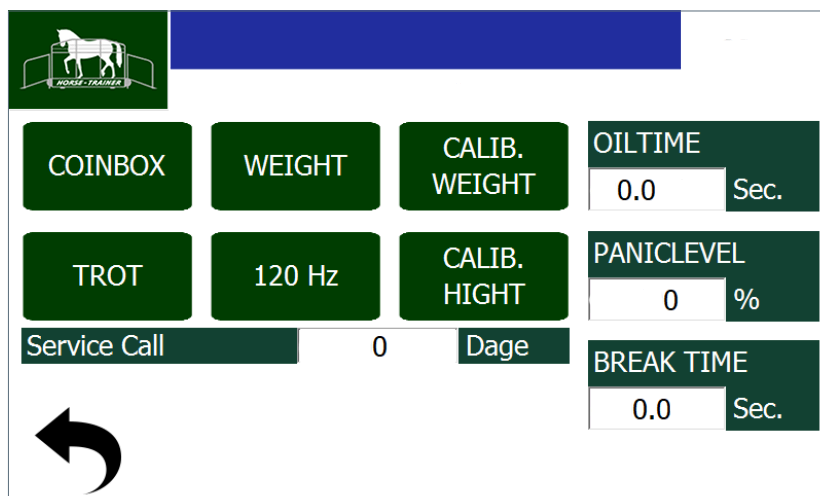
Can be activated if the Horse-Trainer is used for ponies (max. 350 kg).

WEIGHING SYSTEM:

Must be activated if the Horse-Trainer is fitted with weighing cells.

COIN BOX:

Must be activated if the Horse-Trainer is fitted with a coin box.




The screenshot shows the 'SETUP' menu of a 'HORSE-TRAINER'. At the top left is a logo of a horse in a stable. Below it are several green buttons: 'COINBOX', 'WEIGHT', 'CALIB. WEIGHT', 'TROT', '120 Hz', and 'CALIB. HIGHT'. To the right of these buttons are four settings, each with a value and a unit: 'OILTIME' (0.0 Sec.), 'PANICLEVEL' (0 %), 'BREAK TIME' (0.0 Sec.), and 'Service Call' (0 Dage). A large black arrow points to the left at the bottom left of the screen.

COINBOX	WEIGHT	CALIB. WEIGHT	OILTIME 0.0 Sec.
TROT	120 Hz	CALIB. HIGHT	PANICLEVEL 0 %
Service Call	0	Dage	BREAK TIME 0.0 Sec.

“Calib height”:

If you press this button, you can define the max. height to which the belt will lift. On Horse-Trainer WALK, this is normally 58.




ADJUSTMENT

0

ACTUAL INCLINATION

0




STATUS

The “CURRENT POWER” field shows the current motor power.

The “CURRENT SPEED” field shows the current frequency (speed) of the motor.

You can use the “DIAGNOSIS” and “ERROR” fields in connection with troubleshooting procedures.



ACTUAL CURRENT

0.0 A

AKTUEL SPEED


0 Hz

TIME INVERTER STANDBY

0

TIME INVERTER ACTIVE

0



DIAGNOSE

0

ACTUAL ERROR

0

1. Lead the horse onto the belt.
2. Set the rear barrier and stumble protection.
3. Put a token in the coin box.
4. Check that the speed scale is set at 0 (zero).
5. Press "START".
6. Gradually turn the speed scale until the pace suits the horse.
7. If necessary, press "STOP" for five seconds to reset the program.

PROGRAM 0:

Horizontal 30 min • you can use the "UP" and "DOWN" buttons to raise and lower the belt steplessly. Stops after 30 min.

PROGRAM 1:

Horizontal 10 min • raise approx. 3° • uphill 10 min • lower • horizontal 10 min. Stops after 30 min.

PROGRAM 2:

Horizontal 10 min • raise approx. 6° • uphill 10 min • lower • horizontal 10 min. Stops after 30 min.

PROGRAM 3:

Horizontal 10 min • raise approx. 9° • uphill 10 min • lower • horizontal 10 min. Stops after 30 min.

PROGRAM 4:

Horizontal 6 min • raise approx. 3° • uphill 6 min • lower • horizontal 6 min • raise approx. 3° • uphill 6 min • lower • horizontal 6 min. Stops after 30 min.

PROGRAM 5:

Horizontal 6 min • raise approx. 6° • uphill 6 min • lower • horizontal 6 min • raise approx. 6° • uphill 6 min • lower • horizontal 6 min. Stops after 30 min.

PROGRAM 6:

Horizontal 6 min • raise approx. 9° • uphill 6 min • lower • horizontal 6 min • raise approx. 9° • uphill 6 min • lower • horizontal 6 min. Stops after 30 min.

PROGRAM 7:

Horizontal 3 min • raise approx. 3° • uphill 4 min • lower • horizontal 3 min. Stops after 10 min.

PROGRAM 8:

Horizontal 3 min • raise approx. 6° • uphill 4 min • lower • horizontal 3 min. Stops after 10 min.

PROGRAM 9:

Horizontal 3 min • raise approx. 9° • uphill 4 min • lower • horizontal 3 min. Stops after 10 min.

NB KEEP CLEAR OF THE BELT (ABOVE AND BELOW) AND THE ACCESS RAMPS WHILE THE MACHINE IS OPERATING. RISK OF CRUSHING!

SETUP AND CONNECTION

When using forklifts to move Horse-Trainer units, make sure that the forks and lifting chains do not damage the belt or the parts fitted to the machine.

Place the Horse-Trainer on a flat, horizontal floor to avoid twisting the structure. Check using a spirit level. It is especially important that the floor is level cross-wise. Do not install the Horse-Trainer in places where it may be subjected to conditions such as rain, hail or direct sunlight.

DIMENSIONS: Weight: 1530 kg.

Minimum space required for transport: L, W, H: 3700, 1650, 2200 mm. Space required for installation: L, W, H: 6400, 1650, 2450 mm. It is also important to take into account the access conditions for the horse, including with regard to the height. Maximum dimensions for the four machine feet: 2080 x 1345 mm.

The power supply required is: 3 x 400V + N + PE, 16A, WITH PFI FAULT CURRENT SWITCH. The frequency transformer and power motor are fused internally with 16A fuses. Please note that there must not be an HFI or HPFI breaker fitted in front, as the 30 mA cut-out fault current is too sensitive for the frequency converter.

Once the electric power supply has been established, check that the hydraulic pump is turning in the right direction. When - F3 is activated, contact - K2 can be influenced briefly manually using the activation catch. The correct direction is anticlockwise when you look at the fan in the electric motor. If it runs clockwise, swap two phases on the underside of - K2.

DESCRIPTION OF CONTROL BOX

- F1 is an automatic fuse, 3 x 16A, C for the entire control box and the belt motor.
- F2 is a 4A, C for 230V for 24VDC power supply (coin operated if appropriate).
- F3 is motor protection for the hydraulic motor and must be set at 0.8A. - K1 is the main contactor for the belt motor.
- K2 is the contactor for the hydraulic pump.
- K3 is the relay for the bypass valve for the lowering function.
- K4 is the relay for the pump for the belt lubrication function.
- K5 is the relay for activating the frequency transformer
- K6 is the emergency stop relay, which uses switch sets 13, 14 to take the power from K1, cutting off the current to the frequency converter. The belt will then stop in approx. 1 second. This will happen if you press an emergency stop switch, or if the photoelectric cell does not register a horse – if the horse stumbles, for example.

SF1 is a photoelectric sensor with a delay-controlled ON / OFF function. The OFF delay is set at 10 seconds, which means that the belt cannot be started until 10 seconds after the horse has been led onto the belt.

Silicone oil must be visible in the glass to the left of the electrical cabinet. A sensor in the tank registers when the oil level drops below the minimum oil level mark. When this happens, the current program can be completed, but it will not be possible to start the machine again until the silicone oil container has been refilled. Remember to order more oil in good time.

The photoelectric cell and the reflective strip above it constitute a security measure for the horse and must therefore be cleaned regularly to remove dust and dirt. We recommend wiping them with a soft cloth once a month. It is likewise necessary to blow the filters in the air cooling system on each side of the control box clean every two months.

SPECIAL INFORMATION FOR COIN BOX

After fitting the coin box, make sure to select “Coin box” under SETUP (in the service menu).

Lead the horse onto the belt and secure it in place. Set the rear barrier and stumble protection. Insert a token (coin) into the coin operation box. The machine is now ready to operate for 30 minutes. Check that the speed scale is set at 0 (zero). Select program. Press START and gradually turn the speed dial to find the right pace for the horse. If necessary, press STOP for four seconds to change the program. When the machine is stopped or when you are changing programs, the countdown will be suspended. It will recommence when you press START. If the key switch is set to “Coin box off”, you can run the machine without using tokens.

MAINTENANCE / LUBRICATION INSTRUCTIONS

BELT	Once a week	Once a month
Check that the tension of the belt is correct	x	
Check the belt for damage		x

BELT LUBRICATION SYSTEM	Once a week	Once a month
Top up the oil container with silicone oil (Remember to order oil in good time)		x
Check the inside of the belt to ensure that oil is being applied to it	x	

BELT MOTOR	Once a week	Once a month
The belt motor gears are oiled from the factory. Check that there is no oil spillage below the motor and gears. If there is, contact the supplier.		x

HYDRAULIC LIFTING SYSTEM	Once a week	Once a month
Check the hydraulic pump for oil spillage, and check to make sure there are no oil spills below the motor and pumps. Check the 2 cylinders to make sure they are tight	x	
Lubricate the two bearings on the lifting frames and the two bearings on the traction roller		x

ELECTRICAL CABINET	Once a week	Once a month
Clean the two filters mounted on both sides of the control box		x

STUMBLE PROTECTION	Once a week	Once a month
Clean the photoelectric cell and reflector	x	
Check the cable to the photoelectric cell for damage		x

Make sure to post-tighten screws and bolts one month after starting to use the equipment, and once a year thereafter.

Once a year, check all the electrical connections in the electrical cabinet and on the machine for loose connections and damage.

WARRANTY

We provide a 2-year warranty on all components, although the warranty does not cover general wear and tear on wearing parts.

The warranty only applies with the use of Horse-Trainer friction oil.

The warranty on the belt will cease to apply if spiked shoes are worn on it.

CONTACT INFORMATION

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