

- Junior
- Supra
maxum
- Matador
- Mega

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Everything needs to be checked

This notice describes all the models and equipment offered by dhooghe beach cleaners in its range.

Do not use this machine before having read and understood all of this notice.

Please be careful to really understand all the safety measures mentioned in the warning texts of these directions for use and affixed to the machine. If you do not understand

one or several of these instructions please contact your dealer or the manufacturer.

It is the responsibility of the purchaser and of the user to read these directions for use.

- ▶ Use
- ▶ Safety
- ▶ Maintenance

The driver is responsible for the daily inspection and maintenance of the machine. He/she must look after the repair and/or replacement of the parts which could make the use of the machine dangerous or which could provoke wear and/or damage to other parts. Never try to carry out repairs or modifications without having the necessary qualifications

Checks prior to use - transport

Before accepting delivery of the machine, it is necessary to undertake a visual inspection.

We are not able to monitor the transport. Record any damage(s) on the CMR consignment note.

All the machines are equipped with pulling eyes to secure the equipment.

Methods of unloading

1 Hoisting. (lifting)

Use reliable nylon cables of a sufficient strength for the pulling force to be exerted. Fix the cables to the four pulling eyes.

2 Rolling the machine off.

During the unloading, ensure a good connection to the shaft pulling eye..

The non-fixed supplementary items are usually placed in the front, in the storage compartment, or wrapped and placed behind in the skip.



Coupling – hydraulic installation



“When the machine is lifted up, the hydraulic pipes should have sufficient free room”

The machine is coupled using the third point of the tractor. This must be done when the personnel are on the ground and when the tractor is stationary. (The engine must be turned off).

Place the machine directly behind the tractor, secure the two pulling eyes.

Insert the two safety pins.

The connection to the gearbox is done by means of a fixing plate which is delivered separately.

Fit this fixing plate to the tractor. Pull back the ring of the gearbox, slip the hole/gap onto the PTO axle, fix the fixation plate of the tractor.

When the machine is lifted up, the hydraulic pipes should have sufficient free room to enable bends to the right and the left to occur without problem.

The gear box has a maximum speed of rotation of 540 rpm (540^E)

Install the hydraulic pipes. Fit the tractor with two double hydraulic valves + one simple. (In some countries a brake valve). All the movements of the lifting equipment must be at rest.

Remove all dirt from the couplings. Pull back the ring of the female coupling and couple it to the male.

On a standard machine, five hydraulic pipes must be connected (three on a Junior).

Verifying that the hydraulic pressure tube and the hydraulic return tube have both been correctly connected to the double acting valve are included in this stage of the procedure.

Checking – hydraulic installation

Check:

- ▶ the oil level in the gear boxes
- ▶ the oil level in the oil reservoir
- ▶ the oil level of the tractor

All the gear boxes have a transparent cap (of glass) which enables the level to be seen.

If you can see the oil in the level, there is enough oil.

Make a test.

Test the installation at a slow engine speed and :

- ▶ test the lifting action
- ▶ try to tip-up the skip
- ▶ test the fixing plate

Connect the cable for the road lights and check their action

▶ Check the break valve. Engage the power. Allow the sifting belt and the roller to turn. Increase progressively the motor revs.

▶ Allow the oil to circulate for five minutes before starting work. This aids the viscosity of the oil.

Pay particular attention before use ...

For transport of the machine the tire pressure was increased to the maximum. But, this pressure is not suitable for use on sand. A pressure of between 0.8 and 1.2 bar is correct for sand.

- ▶ Tighten the wheel nuts

Make sure that all the protection boxes are closed, and also that they cannot open during operation

Safety instructions

ATTENTION : DO NOT ATTEMPT TO REMOVE OBJECTS WHICH PRESENT A DANGER TO HUMANS OR ANIMALS. There can be many things on a beach and these can be on or in the sand.

The following items must be removed manually (using appropriate protection clothing) : items above 10 cm³, large nets, bottles, bottle fragments, sharp objects, etc. Aerosol cans or other containers which might contain dangerous or explosive products should be removed by a specialist company.

It is essential to use the machine within the limits of its possibilities and to respect the function for which it was designed.

Only competent and trained personnel, who respect its safety and maintenance procedures should operate the machine. Inspect the safety provisions before each use of the machine.

The protection devices must never be disabled. Do not allow yourself to be distracted during the use of the equipment and always maintain an appropriate distance away

from persons not involved in the work.

Work should not be performed on/in the machine whilst it is functioning.

Do not exceed the following speed limits :

- whilst empty, on the road, 40 kmh.
- fully loaded, 12 kmh.
- max operating speed 12 kmh

Replace any blunt or damaged parts promptly.

Regularly maintain the machine.

Uncouple the machine prior to maintenance.

Never go under the equipment.

Check regularly that there are not dangerous items, such as pieces of glass in the cleaned sand. If necessary, remove these objects in an appropriate way.

Do not clean-up dangerous or suspect objects.

Starting operation

Position the machine in front of the surface to be cleaned, put the tractor into its lowest speed, engage the PTO and speed up the PTO power take off and increase the speed of the tractor. This can be done to the maximum speed of the power take off 540 rpm (normal use is between 350 and 450 rpm). Then release slowly the tractor clutch pedal.

To adjust the depth.

Raise or lower manually the machine using the lever which controls the third hydraulic point. One

controls the cleaning depth in this way.

The precision of the depth depends on the automatic height adjustment system of the tractor.

This automatic system determines the maximum operating speed.

When the automatic system is no longer capable of accurately controlling the depth, due to the operating speed being too high, the machine will start to snake, which will make it not drivable.

The cleaning depends on :

- ▶ the tractor speed ;
- ▶ the state of the surface to be cleaned
- ▶ the quality, the traction power and the equipment of the tractor
- ▶ the capacity and the skill of the driver
- ▶ the circumstances of the cleaning
- ▶ the equipment of the machine itself (the sifting opening)

The skill and the experience on the ground are the keys to successful use of your « beach cleaner »

Cleaning

The machine can be used as a reliable trusted mainstay. The cleaning can be done easily and without major problems. If the roller or the sifting chain regularly block, this indicates that the machine cannot do the work in this way.

► To achieve good operating : do not allow rubbish to accumulate.

The flexicoil roller should turn easily. The progression will be easy with the driver sitting comfortably on his/her seat. There will only be a little or perhaps no sand in the skip.

► Adequate operation : maximum depth ; the roller is above. Low operating speed. Only a little or no sand in the

skip.

► Unauthorized cleaning is indicated when : recurrent blockages of the roller or of the sifting chain. Overloading of the tractor, the wheels slip. Presence of a lot of sand in the skip.
:

The wear and tear will be greater, if one cleans quickly and deeply !

If one uses a leveling plate, one must first lift it, before reversing to avoid damage

The maximum power of the hydraulic system, is at 540 rpm on the PTO.

Adjust correctly the rear view mirrors of the tractor on the machines.

Cleaning the machine after use improves the working life and the comfort level

Always work in 4x4

Practical advice for the cleaning

► Algae

Depending on the type, one should obtain better results by deeper cleaning and by reducing the operating speed. Reduce the roller, tighten up the springs the springs or install a supplementary spring. The drier the algae the easier the cleaning.

► Dry – wet sand

The choice of the sieving opening and of the selection of the depth and of the operating speed are important here. If the sieving chain stops because of an accumulation of sand, you can increase the capacity by increasing the rotation speed of the sieving chain

► Tractor power.

One will get the optimal output by choosing the speed where the motor achieves its maximum couple. This speed is lower than the maximum power. The hydraulic system reaches its maximum power at 540 rpm.

► Tires and pressure

The tires achieve their best grip on the sand when their pressure is minimal. This avoids slipping.

Radial tires are the best

Tyres with a tractor profile have the best adherence on sand when their profile turns in the opposing direction. If one fills the tyres of the tractor with water one gives them a better working power.

► Ropes/cords

Clean the coulter regularly.

Ropes/cords which roll themselves around the coulter hinder its good operation ; because of this it will be hard for the sand to slide.

It is sometimes easier to burn nylon ropes than to cut them.

► Sieve belt

Inspect them regularly to see if there is any wear. Replace as required.

Remove any articles that are not transferred to the skip.

Advice : place the lifting gear at its highest position and allow the PTO to turn slowly.

In the event of overload, remove the excess sand manually

What to do in case...

► malfunction of the lifting gear of the skip and/or of the traction plate.
Remove all the couplings, then reconnect them ensuring that the each coupling is correctly made.

► the sifting belt and/or the roller do/does not turn.
Check :
- if the PTO is engaged.
- the oil level of the reservoir
- the gear box fixing
- if there is a leak in the pipes.
- the fixing of the pipes
- the connection between the pump and the gear box.
Or contact your dealer

► grinding noises

Check all the ball bearings. Grease or replace them.

► the sifting belt goes to the left or to the right.
Tighten the upper rod stretch systematically until the sifting belt is positioned in the middle. Do not stretch it too much, a few millimeters will suffice. After each tightening allow the sifting chain to make five turns. Never make an adjustment when the sifting belt is turning

► the axle jams

Rinse or disassemble the drum brakes. Verify the position of the brake cylinder.

► bottle removal.
Reduce the weight of the roller, tighten up the springs or add a supplementary spring.

► too much sand in the skip.
Increase the rate of the sifting belt. Clean less deeply. Reduce the speed of the work.

► the sifting carpet is overloaded.

Remove manually the excess sand.

► Deficient ball bearings. Replace. Contact the dealer.

“Repairs or modifications carried out during or outside the guarantee period by third parties or by the client without our written authorization fall outside our responsibility and are never indemnified ”

Responsibility

In placing the order, the client confirms agreement with the general conditions of sale of the manufacturer. It is only possible to claim exception to this article after receiving an express written confirmation. When the machine leaves our factory, the manufacturer gives a guarantee covering possible faults of construction given a normal use of the machine. This guarantee is for two years and includes the repair or the replacement of the defective part. In the event of such a breakdown, the purchaser must notify the dealer in writing within eight days, otherwise the claim will be nullified. A

detailed description of the breakdown must be attached to the letter of notification. Repairs or modifications carried out during or outside the guarantee period by third parties or by the client without our written authorization fall outside our responsibility and are never indemnified. We only offer a guarantee concerning the cleaning of sand if we have a detailed written description of the terrain of sand to be cleaned. If we do not have such a description, we reject all responsibility.

Ball bearings

All the ball bearings are supplied with a supply of lithium based grease. In the event of normal use, maintenance should not be necessary. The greasing of ball bearings is only allowed using the grease prescribed by the supplier. Request more information from your dealer. The greasing must not be done under pressure, because this forces the opening of the sealing and reduces the expected duration of life.

Traveling, dispatch, and work hours.

In the event of breakdown during the period of the guarantee the replacement or the repair of the part is free, the hours of work necessary for the repair of the breakdown are free if the machine is returned to the factory or to an appointed dealer. If the costs of this are too great : the part is dispatched at the expense of the client. The part is free and no payment is required in respect of the assembly. We will send a technician who will repair the breakdown, the traveling expenses are charged for and the hours of work are free.

dhooghe beachcleaners

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Maintenance & inspections before starting work

- ▶ Check the tire pressure :
min pressure 0.8 bar ;
max pressure 1.2 bar.
- ▶ Tighten the wheel nuts.
- ▶ Check the level of the oil reservoir
- ▶ Check the level of the gear box oil (x3)
- ▶ Inspect :
 - ▶ the pump and the gear box on the PTO
 - ▶ the freedom of movement of the oil pipes
 - ▶ The closure of all the protection boxes
 - ▶ the road lighting

Maintenance after the first day (between 2 to max 8 heures) use

- ▶ After the first day work:
This maintenance is one off, afterwards annual
- Change the oil of the gearboxes (x2)
 - Oil type SAE 90 1 replenishment cap
 - GL5 80W90 2 level
 - 3 cap
- Change the gearbox pump oil
 - Oil type SAE 90 1 replenishment cap
 - GL5 80W90 2 level
 - 3 cap
- Tighten the wheel nuts
- Replace the oil filter



- ▶ **After one week :**
Check the level of the hydraulic oil
If necessary top-up Type HV 46
Kroonoil Petrus H46
Tighten the spring of the sieve belt

▶ Every month :

Maintenance schedule

- Stretch the sieve belt
- Check the ball bearings
- Clean the disks of the drums
- Replace promptly the damaged or worn parts

▶ Once per year :

Check and if necessary replace :

- the ball bearings of the wheel axle
- the disks of the drum brakes ;
- the gearbox; change the oil (x3)
- the hydraulic oil
- oil leaks
- the wheel nuts
- the hinges of the skip
- the gas lifts
- the locks of the boxes
- the electrical installation (the lighting)
- the damages to the painting
- the wear to the sieve belt
- the wear to the roller

**Clean the machine every day
Clean the machine with fresh water
Do NOT clean the machine with salt water**

dhooghe beach cleaners