

Original User manual

NESBO UK 425 / 475 / 725 R/L UK 625 HDS/MDS

Registration of Use	3
EC declaration of conformity	5
General information	6
Safety instructions	7
Introduction	8
Settings.....	10
Operation/use	16
Detaching	18
Maintenance	19
Marking/labelling.....	21
Customer services and claims.....	22



Registration of Use

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Nesbo a/s produces high quality machines for professional users.

The warranty period on our machines is 12 months from the date of purchase and covers compensation in the event of material and production faults.

Any parts that have suffered damage as a result of material and production faults will be replaced by Nesbo a/s at no charge.

Consequential damage and wearing parts will not be replaced.

PLEASE NOTE!

To maintain warranty, the Dealer is obliged to fill in and return the "Registration for use" below to Nesbo a/s, not later than one month after delivery to the end user.

A condition for any processing of claims is that this "Registration for use" is submitted timely.

This can be done on our website www.nesbo.dk

or by completing and scanning/submitting the coupon below to:

Nesbo a/s
Daniavej 31
9550 Mariager
Denmark
nesbo@nesbo.dk

Registration for use:

Machine number	
Model	
Delivery date	
End user	
Address	
Dealer	

EC declaration of conformity

GB

EC declaration of conformity

Manufacturer: Nesbo a/s
Daniavej 31, DK-9550 Mariager, Denmark
Telefon: +45 9858 4400

hereby declares that


machine: Nesbo
machine no.: _____
date: _____

is in conformity with the applicable requirements of:

Order of 10 June 2013 implementing Directive 2006/42/EC of the European Parliament and of the Council as amended, as well as the EMC Directive 2004/108/EC as amended.

Standards applied:

DS/EN ISO 12100:2 011 Safety of machinery - General principles for design
- Risk assessment and risk reduction.

Signature: 
Peter Thomsen
Factory Manager

General information

GB

Please read the user manual before attaching or using your new Nesbo hydraulic weed brush implement. If in doubt – ask your dealer for help.

Use only original Nesbo parts in your Nesbo machinery and implements.

This manual includes an illustrated spare parts list. Read the introduction to the spare parts list before ordering spare parts.

The following warnings are used in this manual:

Warning boxes



WARNING

A technical procedure or similar, which may be associated with a risk of personal – or even fatal injury.



CAUTION

A technical procedure or similar, which, in the event of negligence, may cause damage to the machine or accessories.



NB

Refers to a very important technical procedure or similar.

Safety instructions

GB

You should **NEVER**

- allow unauthorised persons to use the machine unattended.
- use a PTO shaft without a CE mark
- operate the machinery without the safety guards fitted by Nesbo A/S.
- allow anyone to stand close to the machine while it is in use.
- leave the driver's seat while the machine is in operation and the steel brushes are rotating.
- adjust the implement or its settings while the tractor motor is running.
- repair or maintain the implement while the tractor motor is running.

You should **ALWAYS**

- tighten nuts and bolts after 15 hours of operation. In particular, check that the steel brushes are secure.
- ensure that you are well-acquainted with the tool carrier.
- make sure that no-one is standing close to the machine while it is in use.
- disconnect the tractor's hydraulic/PTO system and stop the tractor before making adjustments, maintenance or repairs to the machine.
- make sure that you understand the machine's hydraulic functions and associated movements.

Nesbo Weed Brush type UK 425 / 475 / 725 R/L / 625 HDS is a hydraulically powered weed brush implement and UK 625 MDS is a mechanically powered weed brush implement. Weed brush implements are an alternative to herbicide spraying. Using a mechanical brush, they can remove weeds from flagstones, paths and road sides.

Weed Brush UK 425 / 475 / 725 R/L / 625 HDS / 625 MDS is designed to fit on the front of a tool carrier with a standard front assembly, i.e. A-frame for 0, 1 or 2 linkage and two or three-point tractor hitch categories 0, 1 or 2. No special tools are required.

The power needed to drive the implement is supplied via the tool carrier's hydraulic connection(s).

Mechanical system on model UK 425 / 475 / 725 R/L / 625 HDS / 625 MDS

The implements are available in several variants, i.e. there is a choice of control mechanisms for the variable functions

Tool carrier equipped with 2 dual hydraulic connections.

In this variant, the weed brush is equipped as standard with 1 x reversing valve

1. hydraulic connection to extend the main beam
2. hydraulic connection to tilt the brush head, i.e. to switch between 2 hydraulic cylinders with an electric reversing valve, controlled via the electrical panel.



Tractor equipped with 1 dual hydraulic connection.

In this variant, the weed brush is equipped as standard with 1 x extra reversing valve = 2 x reversing valves in all.

All functions are powered by 1 hydraulic connection, which switches between the various functions using 2 reversing valves.

Tractor equipped with 3 dual hydraulic connections.

In this variant, all the hydraulic functions are controlled hydraulically, i.e. there are no reversing valves.

Noise level

The noise level to which the driver is exposed in the tractor cabin is 74-85 dB (A).

These figures originate from data provided by most tractor manufacturers in their product specifications.

In any situation, in which the operator of a UK 425 / 475 / 725 R/L / 625 HDS / 625 MDS implement may feel that the noise level is unpleasant, Nesbo A/S recommends the use of ear defenders.

Choice of tool carrier

When choosing an tool carrier, you should make certain that the weed brush implement and tool carrier together are stable during operation.

Note that the centre of gravity of the tool carrier shifts when the weed brush is attached to it, especially when the brush head is extended. Take special care on slopes and inclines.

For your guidance, Nesbo A/S recommends that the tractor you use meets the following:

	UK 725 RL	UK 425 / 75 R/L	UK 625 HDS/MDS
- min. net weight	1350 kg	850 kg	1000 kg
- min. wheel gauge	1000 mm	800 mm	1000 mm
- min. PTO voltage	15 k/W (20,4 HP)	12 k/W (16,5 HP)	15 k/W (20,4 HP)

Hitch

The tool carrier must be equipped with a three-point tractor hitch category 0, 1 or 2, or an A-frame category 0, 1 or 2. It may be possible to use another recognised hitch.

Hydraulic connections

The tractor must have an independent PTO/hydraulic connection to ensure that the weed brush rotation speed is independent of tractor propulsion.



WARNING

Ensure that the tool carrier PTO rpm / oil flow is correct (See label on the machine).

If the PTO rpm / oil flow on the tool carrier is higher than the weed brush machine specifications, the machine may spread stones fiercely, representing a serious risk of personal injury or irreparable damage to the machine.

Attaching to the tool carrier

To attach UK 425 / 475 / UK 725 R/L / UK 625 HDS / UK 625 MDS to the tool carrier, drive the vehicle up to the weed brush implement in the basic position.

A-frame:

If an A-frame link is used, the male frame on the tractor must be lowered as far as possible to ensure that there is some clearance between the male and female frames. Drive forward, raise the hitch and the frame locks in.

3-point tractor hitch:

Drive the vehicle up to the weed brush implement. Stop the vehicle at right angles to the machine, so that the front hitch beams are aligned with the pins on the machine. Stop the tractor. Attach the implement manually.

Other frame/hitch types:

Follow the manufacturer's instructions for the specific type of frame.



WARNING

Manoeuvring the frame/hitch at the connection between the implement and carrier is potentially dangerous. If connecting the implement is difficult – find someone to help.

If the sides are not aligned, adjust the top rod so that the weed brush implement frame is vertical and the main beam can slide horizontally.

UK 625 MDS

Stop the tractor engine.

Fit the PTO shaft to the tractor. Check that the locking pin in the fitting fork has clicked into the notch.

Fit the safety chain, ensuring that it is not so tight that it is ripped off when the machine is raised into the transport position.



CAUTION

Before using the PTO shaft, make sure the shaft is the correct length so it is not displaced more than the min. and max. length setting when lifting - according to the PTO shaft operating instructions.



NOTE

The PTO shaft must only ever be shortened in accordance with the PTO shaft operating instructions. If you cannot find this in the PTO shaft operating instructions, please contact your dealer.

**UK 425 / 475 / 725 R/L /
625 HDS**

Attach the quick lock hoses to the tractor's operative hydraulic connections. Check that the connections are correctly locked. Attach the quick lock hoses to the dual hydraulic connections on the front of the tractor.



CAUTION

Take care when positioning hydraulic hoses and electric cables. They can easily be damaged.



NB

Hydraulic hoses are supplied in standard lengths.

If they need to be shortened, this must be performed by the dealer.

Electric control unit

In addition to connecting the hydraulic hoses, you have to fit an electric control cable from the weed brush implement to the tractor cabin. Connect the electric control unit to the inside of the tractor.

Basic setting

The weed brush is suspended freely from the hitch so that it is possible to move large volumes of material by pressing the steel brushes down onto the ground using height adjustment, regulated by means of the hitch functions.

Height adjustment also means that the implement can reach small indentations in asphalt surfaces, etc. to remove material/weeds.

Please note, however, that the machine can be overloaded. The warranty does not cover damage caused by overloading.



NB

The hydraulic cylinder operating speed used to extend the arm and tilt the brush head can be adjusted via the fitted throttle valves.

UK 625 HDS/MDS

Using the support wheels: (Additional equipment)

Support wheels are an advantage on flat terrain where not much material needs to be moved. You can drive faster while still carrying out precision work. They also allow you to achieve more stabilised operation without major vibrations from the machine and tractor.



NOTE

Remember to release the height adjustment lever for the support wheels to prevent any adjustments during operation



NOTE

The hydraulic cylinder operating speed used to swing the arm and tilt the brush head can be adjusted via the fitted throttle valves

Brush position

Always take into account the conditions under which the steel brushes will be working. At curbs and on cobblestones it is often an advantage to tilt the brush plate in order to sweep more intensively. Less bristle contact means that there is more bristle pressure on the ground.



There are several different brush head settings, which determine different directions of spread.



WARNING

Never adjust the brush plate if there is anyone close to the weed brush implement.

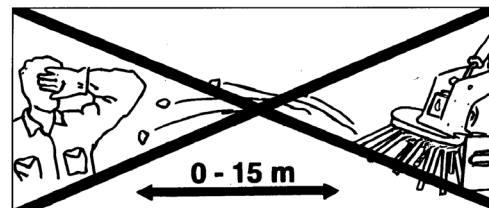
People must remain at a safe distance of at least 3-4 m from the machine when the operator is seated in the tractor cabin.

Spreading material

By tilting the brush plate, you can adjust material spread in any direction you wish. The direction of rotation and tilt of the brush plate determine the direction of spread.



WARNING



Protective guard

To minimise the spread of material against the tool carrier and to the side, there is an adjustable rubber guard. As a rule, the rubber guard should be adjusted according to the brush plate position.

On flat ground, the rubber guard should be fully lowered, although there should be a little clearance.

On uneven ground, the rubber guard should be adjusted so that the gap between the ground and the guard is about 5-10 cm. Correct adjustment prevents unnecessary wear-and-tear on the guard as a result of contact with the uneven ground.



WARNING

Switch off the tractor before adjusting the rubber guard. Failure to do so may result in serious personal injury

Start

Once the basic settings are in place, UK 425 / 475 / 725 R/L / UK 625 HDS/MDS is ready to start.

Start the tractor and leave it idling.

Engage the weed brush PTO- /hydraulic control handle. With the tractor motor idling, check that the machine rotates freely and encounters no obstacles.

Increase RPM to the normal level and allow the machine to run for 1 minute. Note if there are abnormal vibrations or noises coming from the machine. If there are abnormal vibrations or noises, contact your dealer immediately.

To stop the weed brush implement, reduce tractor RPM to idling and put the PTO- /hydraulic control handle into neutral.



NB

The weed brush is fitted with a specially designed Parker hydraulic motor, which has an integrated crossover valve to protect the machine if there is excess oil pressure or if the hydraulic control handle is disengaged when the brush head is rotating at high speed. (But not UK 625 MDS)

The machine is now ready to run.

Before using the machine, the operator must ensure that he is well-acquainted with the machine's hydraulic functions.

The machine may only be used in the areas described in the introduction.

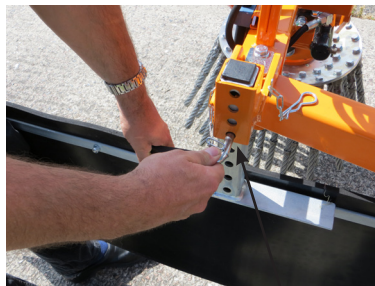


WARNING

Increasing the brush rotation speed above the values stated by the manufacturer presents a potential risk of personal injury as this can cause a harder and longer spread of material, e.g. stones, than stated above. No-one may stand within a radius of 15 metres from the weed brush.

**Switch to working on the opposite side
(Not UK 625)**

To switch from working on the right to the left (or vice versa):



Remove the rubber guard cotter pin. Remove the rubber guard.



Remove the 2 ring pins on the steering rod. Remove the steering rod.



Swing the brush head to the opposite side



Refit the parts and the machine is ready to operate on the opposite side.

Vertical operation (UK 725 R/L only)

On UK 725 R/L the brush head can be tilted to sweep in the vertical position



Breakdown

In the event of a breakdown:

Reduce tractor RPM to idling, release the tractor's PTO- / hydraulic handle and stop the tractor before leaving the cabin. If you cannot identify the cause of the breakdown, contact your dealer. You should contact your dealer if a breakdown occurs in hydraulic, electrical or mechanical functions.

To restart:

Check that the tractor's PTO- / hydraulic handle is disengaged. Start the tractor and let it idle, while you check that the machine is in perfect working order.

Fire risk

If the weed brush is working in very dry conditions and on hard ground, sparks may occur.

There is therefore a serious risk that dry vegetation may ignite.



WARNING

In exposed areas with very dry vegetation where a fire would spread easily, the operator must ensure that the area is watered before using the weed brush.

Detaching the implement

To detach UK 425 / 475 / 725 R/L / UK 625 HDS/MDS from the tool carrier, perform the following in this order:

- Set the machine at its narrowest position.
- Make sure that brush plate is horizontal so that the bristles rest on a level surface.
- Stop the tractor with the weed brush implement raised off the ground.
- Attach the supporting legs to the fitting frame.
- Disconnect the hydraulic hoses from the tractor, slide on protective caps and lay the hoses across the main beam.
- If the machine has electrical equipment: Detach the cylinder switching control box and lay this across the main beam.
- Start the tractor and lower the weed brush implement onto the even surface.

A-frame:

Raise the lock pin on the female frame. Lower the frame until it is clear. Reverse the tractor away from the weed brush implement to detach.

3-point tractor hitch:

Lower the weed brush implement and stop the tractor. Remove the pin from the top beam of the weed brush implement so that the top beam is attached only to the tractor.

Then remove the hitch beam rods.
Start the tractor and reverse away from the weed brush implement.



WARNING

Never manoeuvre the tractor hitch if there is a risk that someone can come into contact with the implement and tractor. There is a danger of serious personal injury in the form of crushing.

Storage

For best results, at the end of the season UK 425 / 475 / 725 R/L / UK 625 HDS/MDS should be thoroughly cleaned and serviced before storing. Remove weed, soil, etc. from the steel brushes and guards.

To make sure your weed brush implement has the longest possible useful lifetime, follow the maintenance instructions.

Tightening

Nuts and bolts.

All nuts and bolts must be tightened after the initial 5 hours and then at intervals of 15 operating hours.

Lubrication

Daily:

Lubricate the PTO shaft, see PTO shaft operating instructions.

For every 50 operating hours:

Lubricate with grease: the pivot joint on main beam and cylinder eyes.



WARNING

Handling grease and oil can be hazardous to your health.

Follow the safety instructions on the grease or oil packaging.

Angular gear - UK 625 MDS

The angular gear is delivered filled with oil to the edge of the filling hole. In general it does not require any maintenance, only a regular check of the oil level and if required, refilling with high-pressure oil SAE 80W/90.

When filling oil at the pivot joint, turn the main boom out to one side before stopping the tool carrier.

The two gears are now ready for refilling.

The angular gear at the brush head must be positioned so that the filling pipe is vertical before filling takes place.



Replacing wearing parts

Steel brushes:

To replace worn steel brushes:

- Stop the tractor!
- Raise the implement's brush plate from the ground!
- Using standard tools, loosen and remove the bolts from the tufts on the brush plate and replace the worn steel bristles.
- Tighten the bolts securely in the tufts on the brush plate so that they do not come loose during operation.

Rubber guard:

A worn rubber guard should be replaced.



NB

Check that all guards are replaced correctly after they have been detached.



NOTE

Worn/faulty guards incl. the PTO guard must be replaced with new guards.

When replacing the PTO shaft or hydraulic hose, make sure that these are fitted correctly and are the correct length.

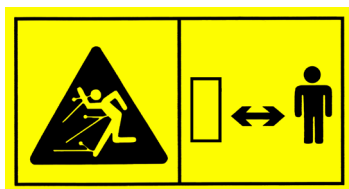
Marking/labelling

GB

The machine must carry the following signs/marks. These are mandatory and must be clearly visible. New marks/signs are available from the manufacturer. Contact your dealer to order.

Warning sign on the weed brush:

- A warning sign to warn against any contact with the steel brushes – either when rotating or at a standstill.
- Also a sign to warn people not to stand within a 15 m radius of the machine when it is operating.



Number plate:

The machine is fitted with a riveted type plate/number plate. The number engraved on this plate is unique to the individual machine. This means that the manufacturer can trace the machine at any time.

The number plate also states the weight of the machine (kg).

CE mark/manufacturer's address:

The type plate carries the CE mark and also states the production year, manufacturer's website and telephone number.



Other labels:

The machine also carries the manufacturer's own labels, logo, etc.

Customer services and claims

GB

Service

It is the dealer's responsibility to deliver the machine (and assemble if required), to start it on delivery or first use, and to instruct the operator about the use and maintenance of the machine (including tightening nuts and bolts).

The dealer is also obliged to make sure that the user manual and spare parts list is delivered to the customer and that the registration for use is completed correctly and sent to Nesbo a/s no later than 1 month after delivery to the user. (See page 3)

Claims

The warranty period on Nesbo is 12 months from the purchase date, and covers any material or manufacturing defects. These parts will be replaced by Nesbo a/s free of charge. Consequential damage and wear and tear will not be replaced.

Any components which are not manufactured by Nesbo a/s are included under the terms of the warranty to the extent authorised by the supplier of the parts in question.

Nesbo a/s reserves the right to assign a claim of this kind to the relevant supplier and not to reach a decision until the relevant supplier has responded.

The following must be observed when working on a claim:

- report the claim to Nesbo before the repair is started
- agree a time period with Nesbo for qualified technicians to carry out the repair
- any labour costs will only be approved at a fixed net price.

If Nesbo a/s has not authorised repair work in advance, any invoice submitted for repair work will not be approved.

At Nesbo a/s' request, before the claim can finally be handled, any parts that were replaced must be sent carriage paid to the factory.

Nesbo a/s retains the exclusive right to determine the extent to which a part shall be replaced or repaired.

Customer services and claims

GB

The warranty does not cover:

- normal wear and tear or damage which has resulted from inadequate maintenance.
- damage caused by collision.
- non-compliance with the product's technical specifications or if the product is used for a purpose other than that described in the ser manual.

If the product is altered or if non-original spare parts are used, all rights under the warranty will be rendered void.

The purchaser does not have the right to require that design changes on future models are implemented in a pre-existing machine.

In the event of a complaint

Complaints must be registered directly with Nesbo a/s. Complete a complaint report, stating the machine type, production number and date of its delivery to the customer, and send it to us. This is done via the dealer login on our website www.nesbo.dk.

If questions arise about claims on imported machines, we reserve the right to present the claim to the manufacturer before making any decision about whether the claim can be accepted.

Our machinery is subject to the EC Machinery Directive and quality assured within the European Union. We make every effort to comply with these requirements and do our utmost to supply high quality machinery.

Mariager, 01.06.2017
Nesbo a/s



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